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AP SUPPLEMENT

WILDERNESS PLANNING AMENDMENT/ ENVIRONMENTAL IMPACT STATEMENT FOR THE DILLON RESOURCE AREA

DRAFT

Department of the Interior
Bureau of Land Management
May 1982

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

QH
76.5
.M9
D54
1982
V.2

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As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. administration.

#8631674

ID88070183

INTRODUCTION

The maps in this supplement show the ownership of land, the condition and location of resources, and the alternatives considered for each of the eight Wilderness Study Areas (WSAs) discussed in the Draft Dillon Wilderness Planning Amendment/EIS. The location of these WSAs is shown on the location map.

In order to facilitate the analysis of individual WSAs, the maps in this supplement are grouped so that all maps for a particular WSA appear together

QH
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Location

Regional Wilderness Opportunities

Ruby Mountains WSA, MT-076-001
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- Developments and Allotments
- Ecotypes
- Visual Resources
- Geologic Map of the Northern Ruby Range
- Mining Claims and Mineral Leases
- Mineral Potential
- Timber Management
- Alternatives

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- Land Status
- Developments and Allotments
- Ecotypes
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- Geologic Map of the Upper Alder Gulch Area
- Mining Claims and Mineral Leases
- Mineral Potential
- Timber Management
- Alternatives

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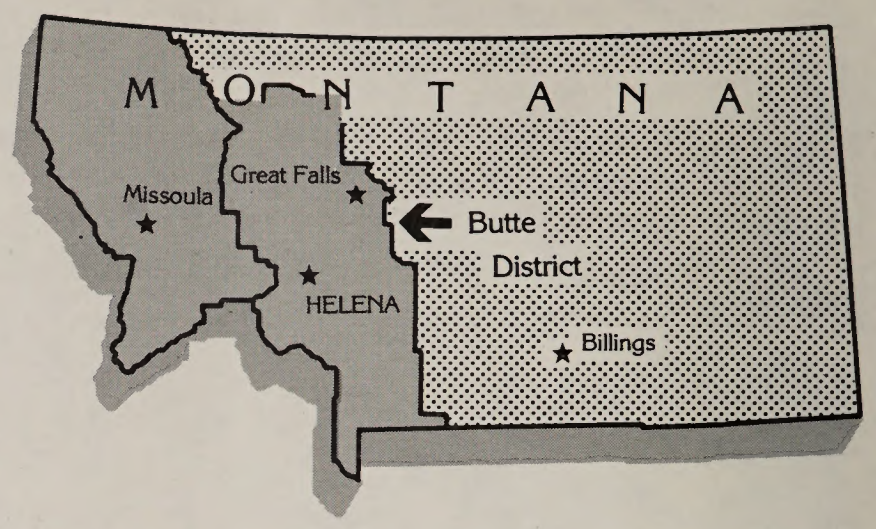
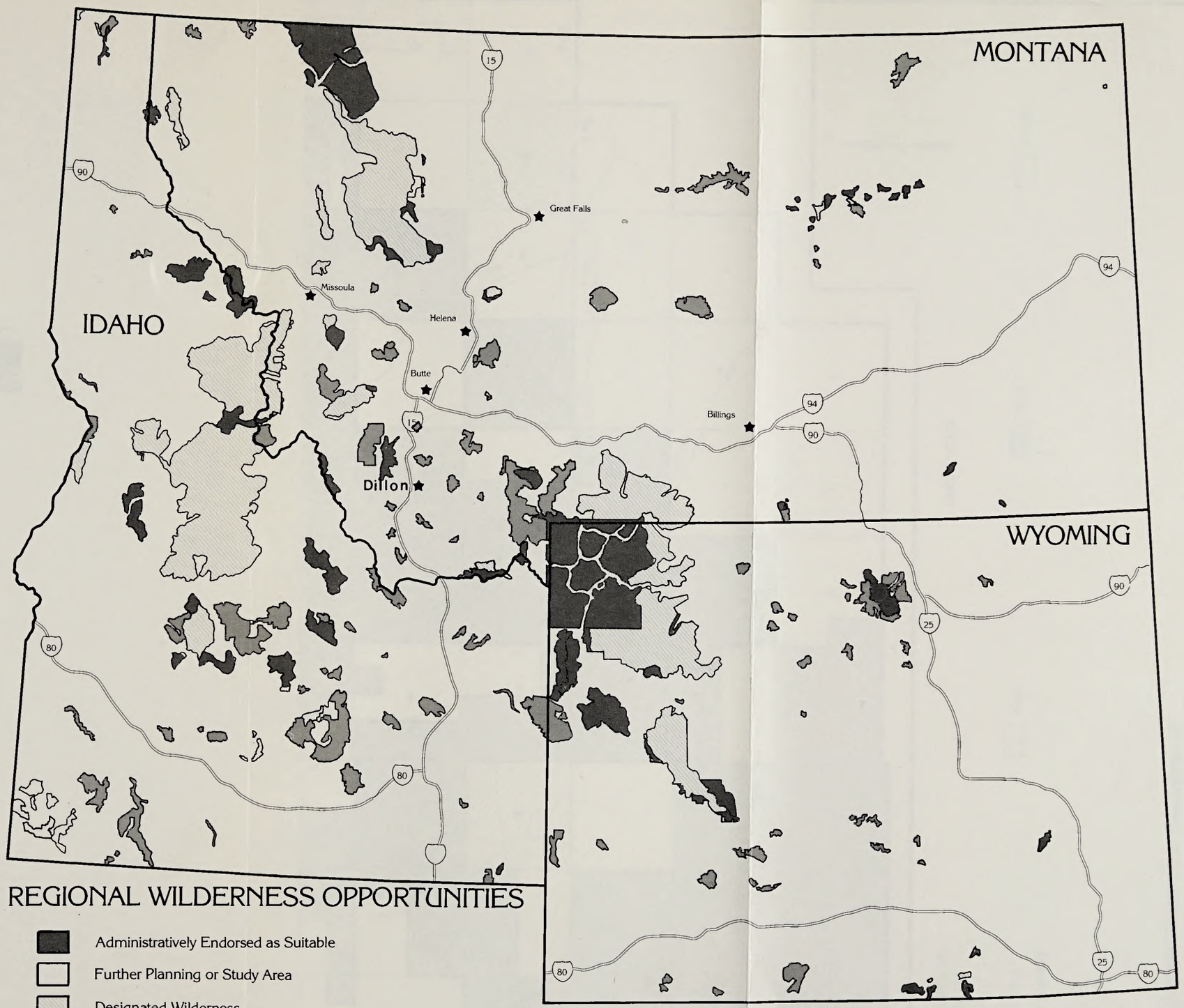


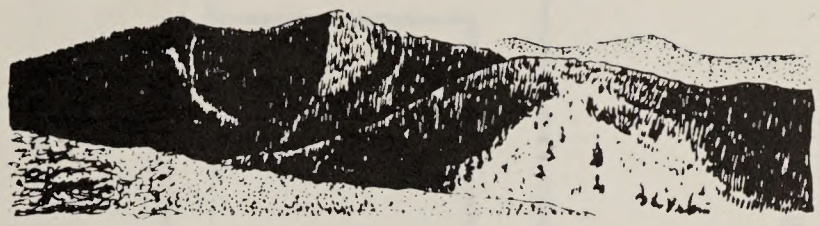
Location Map
Dillon Wilderness Planning Amendment/EIS
for the Dillon Resource Area



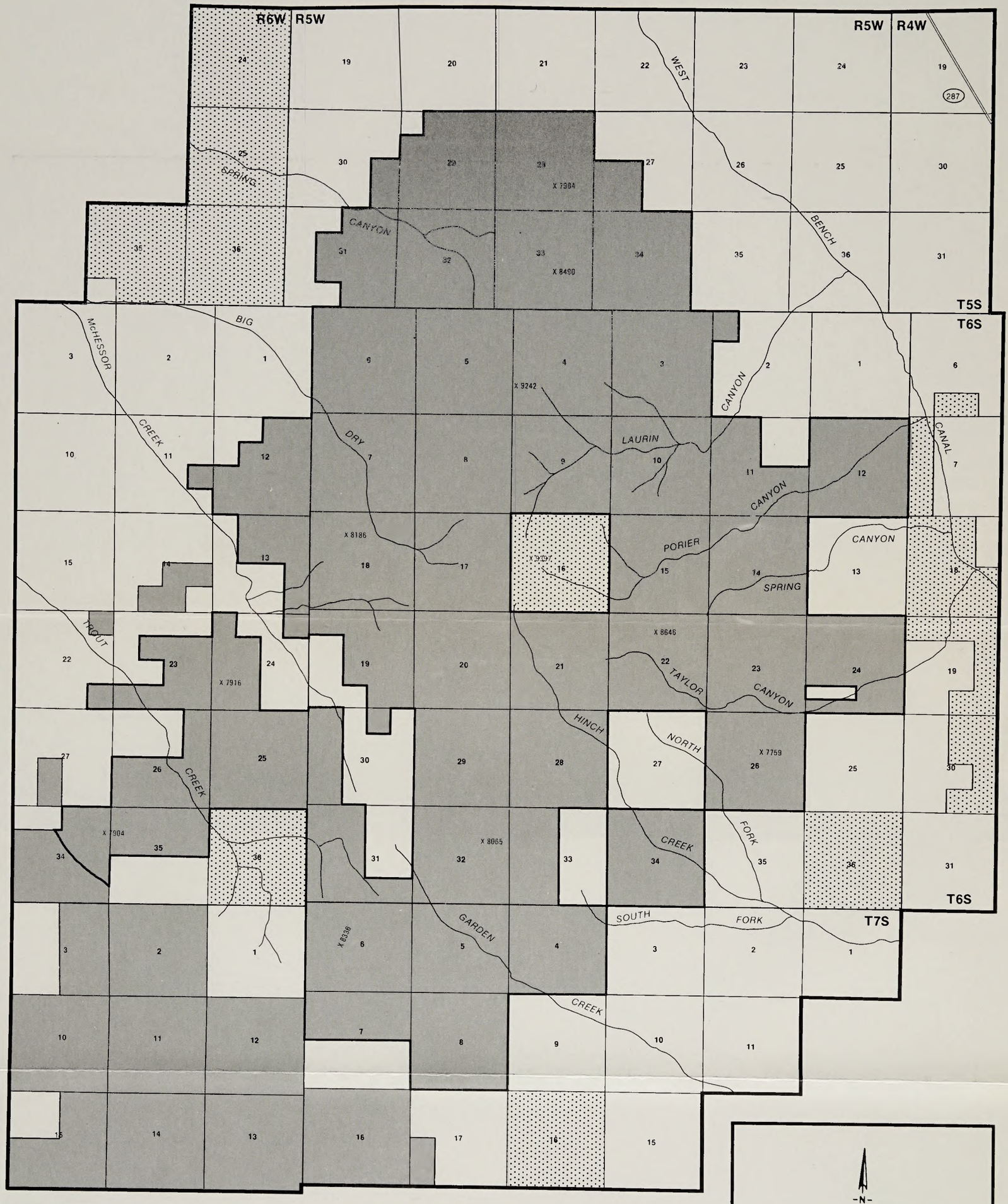
REGIONAL WILDERNESS OPPORTUNITIES

- Administratively Endorsed as Suitable
- Further Planning or Study Area
- Designated Wilderness

1 inch : 75 miles



Ruby Mountains WSA
MT-076-001



RUBY MOUNTAINS
MT-076-001

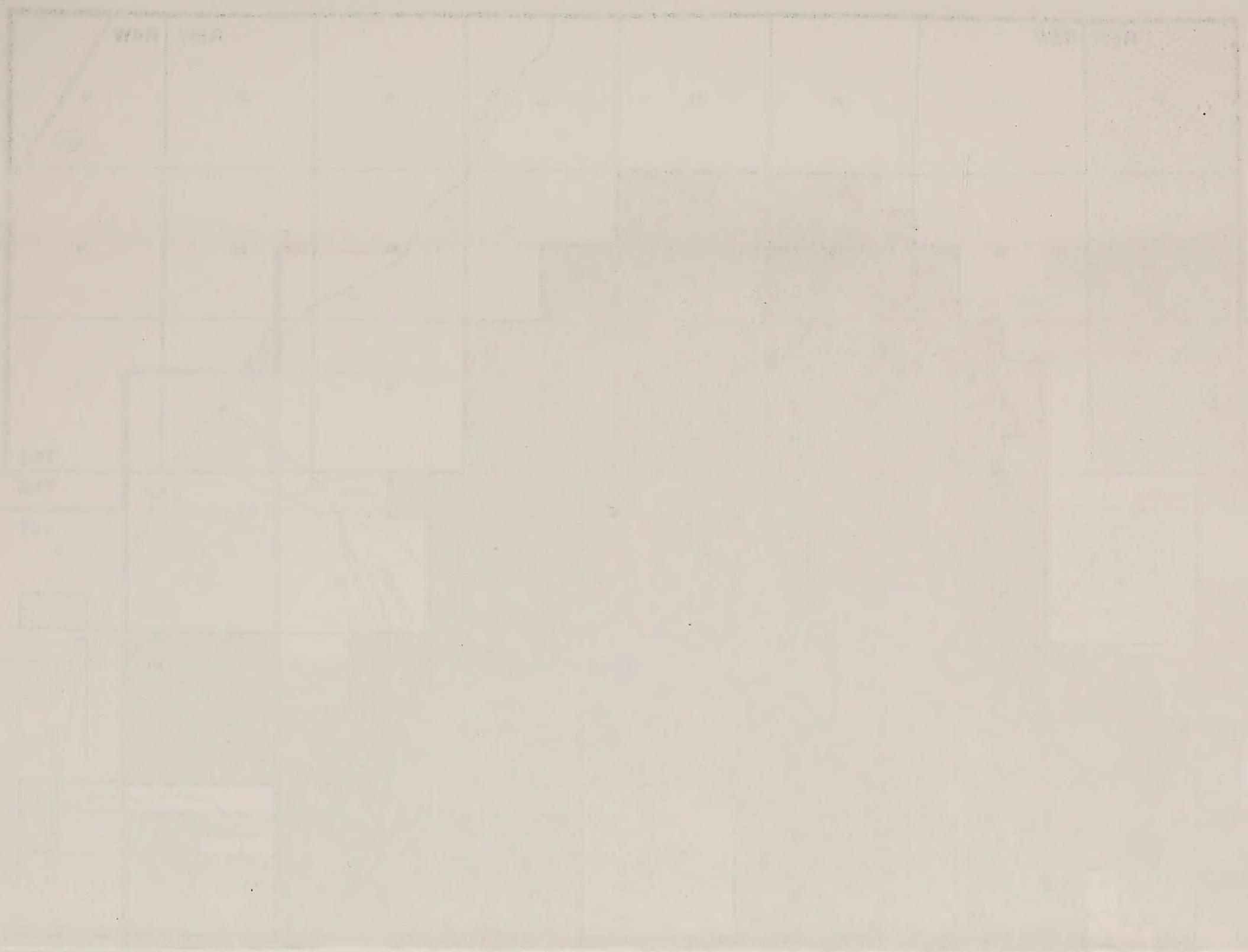
LAND STATUS

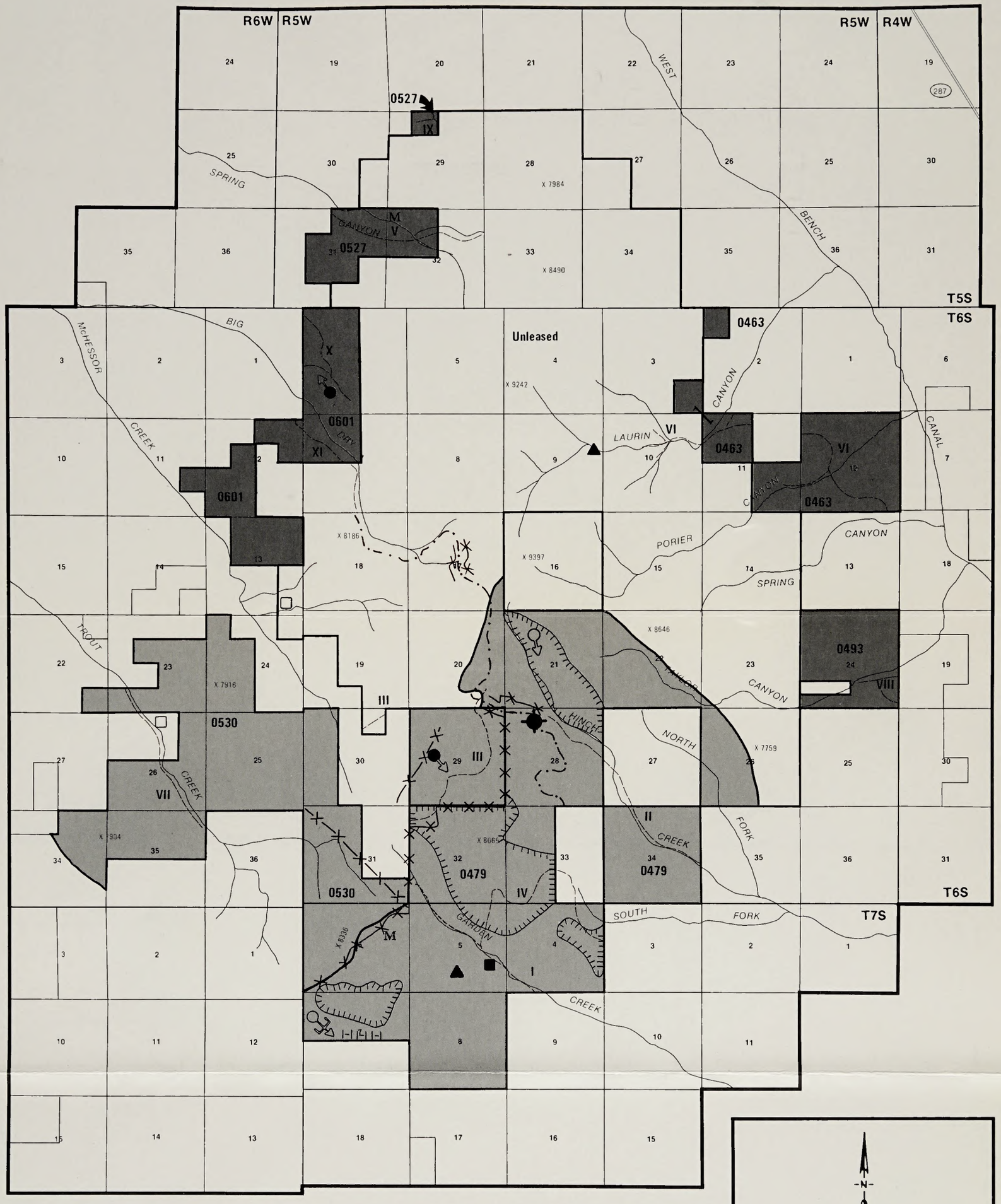
Paved Road
WSA Boundary

State
BLM
Private

-N-

1 0 1 2 Miles





RUBY MOUNTAINS
MT-076-001

Paved Road
WSA Boundary

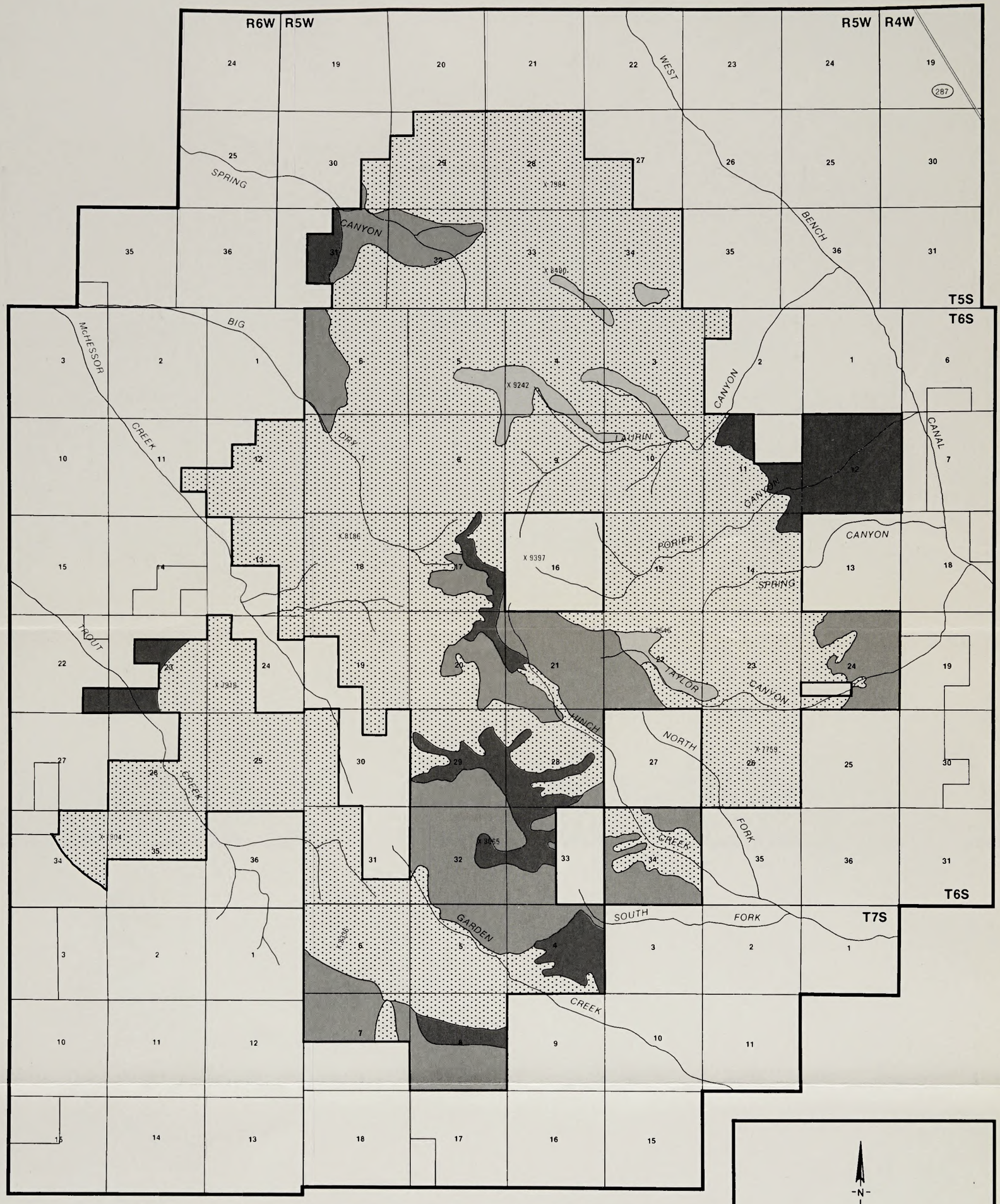
DEVELOPMENTS AND ALLOTMENTS

Allotment Management Plan (NONE)
Proposed Allotment Management Plan
Custodial
Vehicle Route
Stock Driveway
Developed Spring
Proposed Developed Spring
Proposed Developed Spring with Artificial Watershed
Proposed Pipeline

Proposed Burn
Cabin Remains
Old Timber Cutting
Seasonal Camp
Line Shack
M Mine Site
Fenceline
Proposed Fenceline

1 0 1 2 Miles

N



RUBY MOUNTAINS
MT-076-001

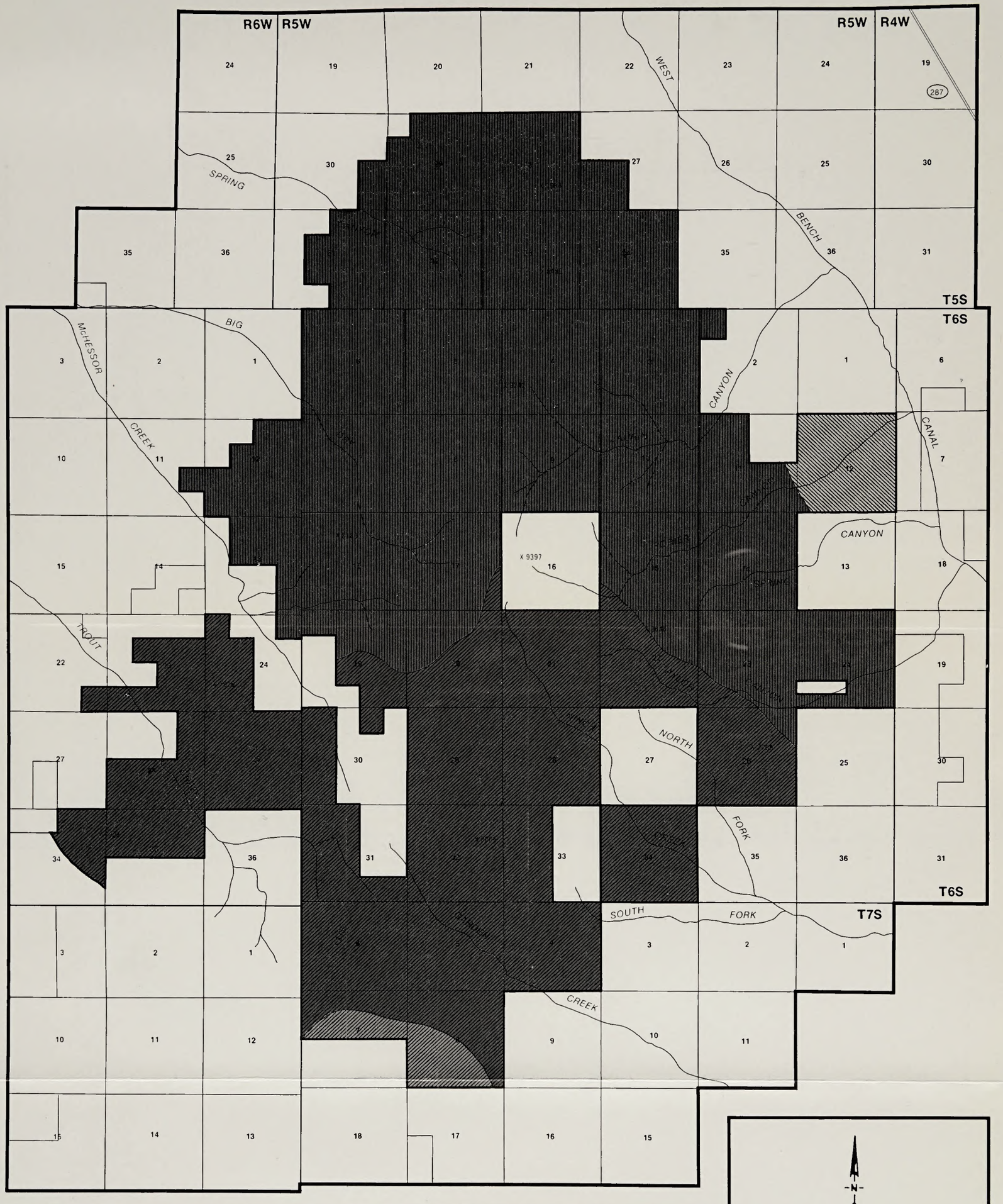
ECOTYPES
(Bailey-Kuchler System)

- Paved Road
- WSA Boundary

- 11 Douglas Fir Forest
- 45 Alpine Meadows and Barren
- 49 Sagebrush Steppe
- 56 Foothills, Prairie

N

1 0 1 2 Miles



RUBY MOUNTAINS
MT-076-001

Paved Road

WSA Boundary

1 0 1 2 Miles

VISUAL RESOURCES

Scenic Quality Classes

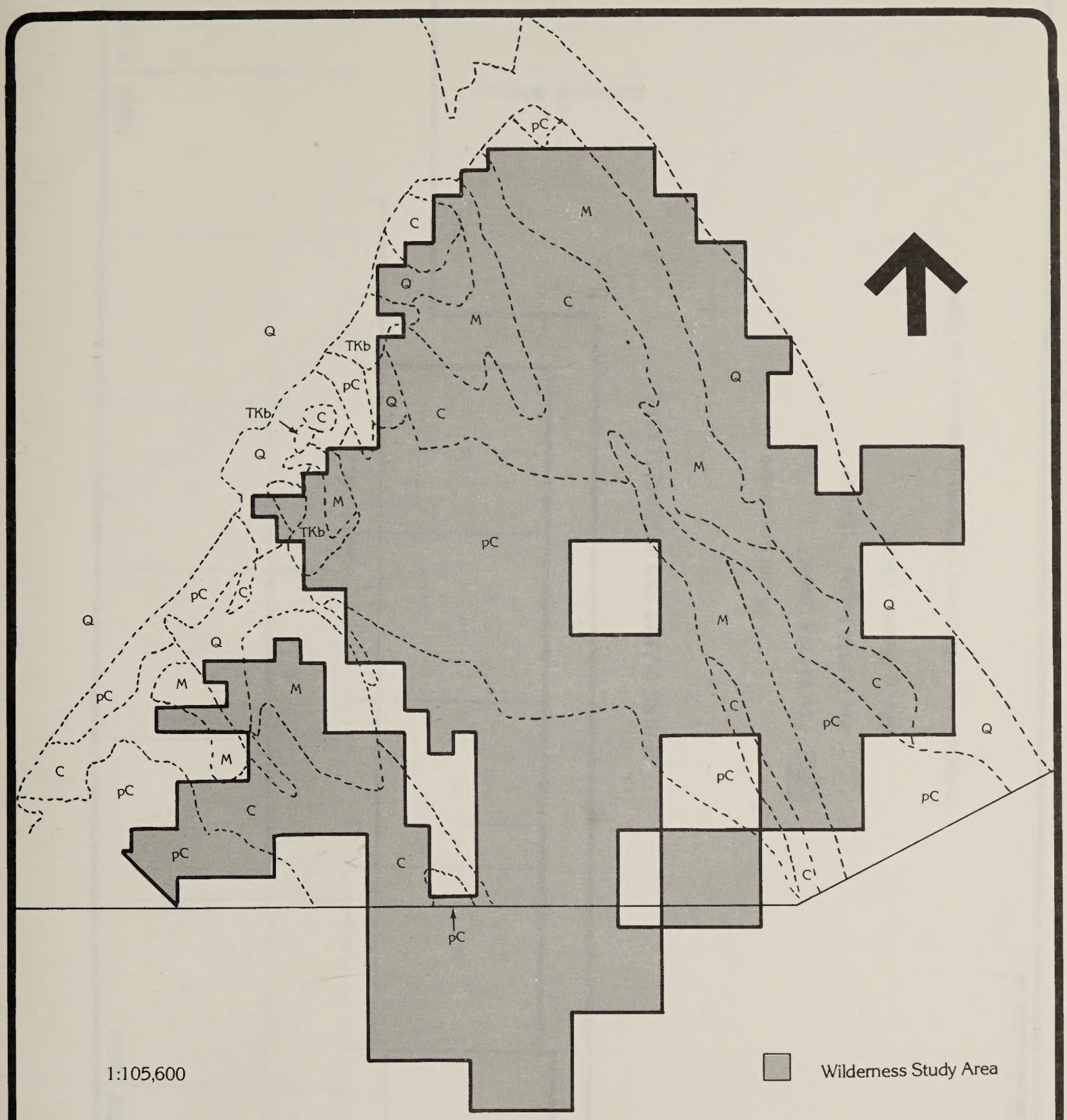
- Class A — Outstanding Scenic Values
- Class B — Above Average Scenic Values
- Class C — Average Scenic Values

Visual Resource Management Classes

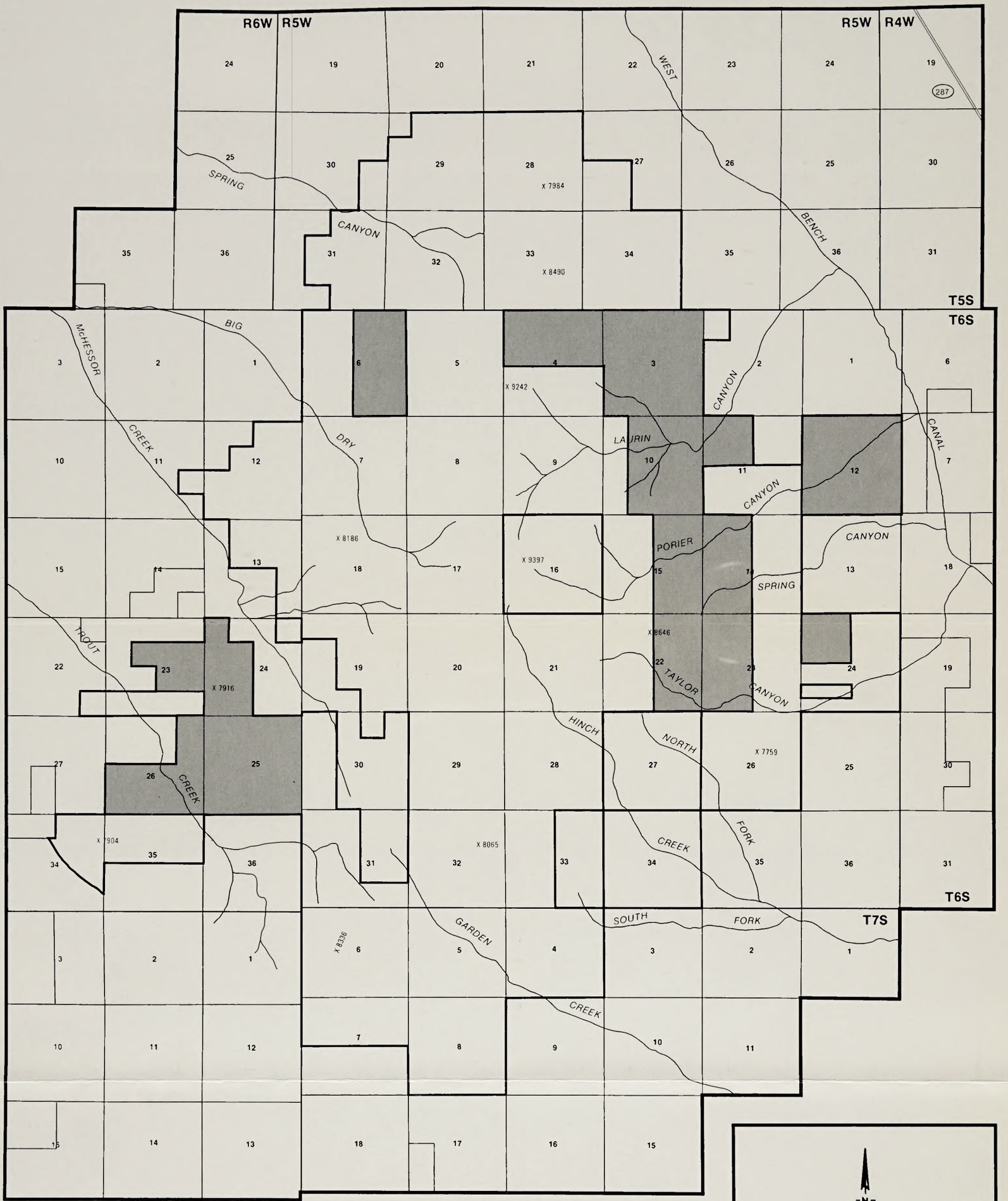
- Class II — Retention of Landscape Characteristics (no evident changes allowed)
- Class III — Partial Retention of Landscape Characteristics (no dominant changes allowed)
- Class IV — Modification of Landscape Characteristics (dominant changes allowed)

RUBY MOUNTAINS WSA

GEOLOGIC MAP OF THE NORTHERN RANGE



pC	Precambrian: Cherry Creek Group Metamorphic—gneisses schists, marble
C	Cambrian: Flathead, Wolsey, Meagher, Park, Pilgrim, Red Lion, and Hasmark formations—sandstone, dolomite and shale
M	Mississippian: Lodgepole and Mission Canyon formations—limestone
TKb	Late Cretaceous-Paleocene: Beaverhead formation—carbonate or quartzite conglomerates
Q	Miocene-Pliocene: Valley fill—mostly coarse clastics
Qa	Pleistocene/Quaternary Pediment veneers, alluvium, colluvium, glacial till, lake deposits



RUBY MOUNTAINS
MT-076-001

MINING CLAIMS AND MINERAL LEASES

Paved Road

WSA Boundary

Oil and Gas Leases

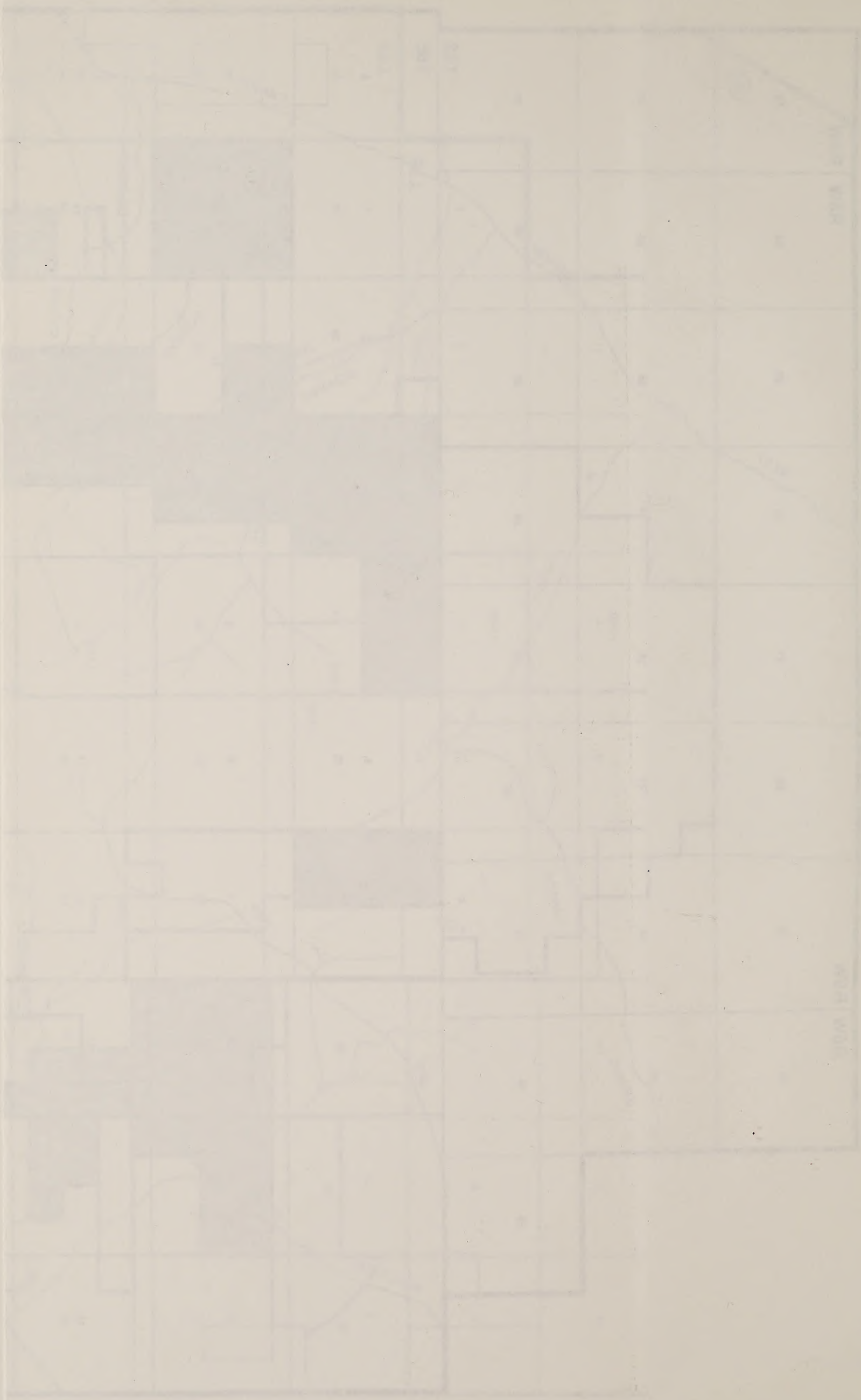
Post FLPMA Leases*

Pre FLPMA Leases (NONE)

Mining Claims (NONE)

*Includes lease applications and leases in simultaneous lottery

1 0 1 2 Miles



RUBY MOUNTAINS
MT-076-001

MINERAL POTENTIAL

Paved Road

WSA Boundary

1 0 1 2 Miles

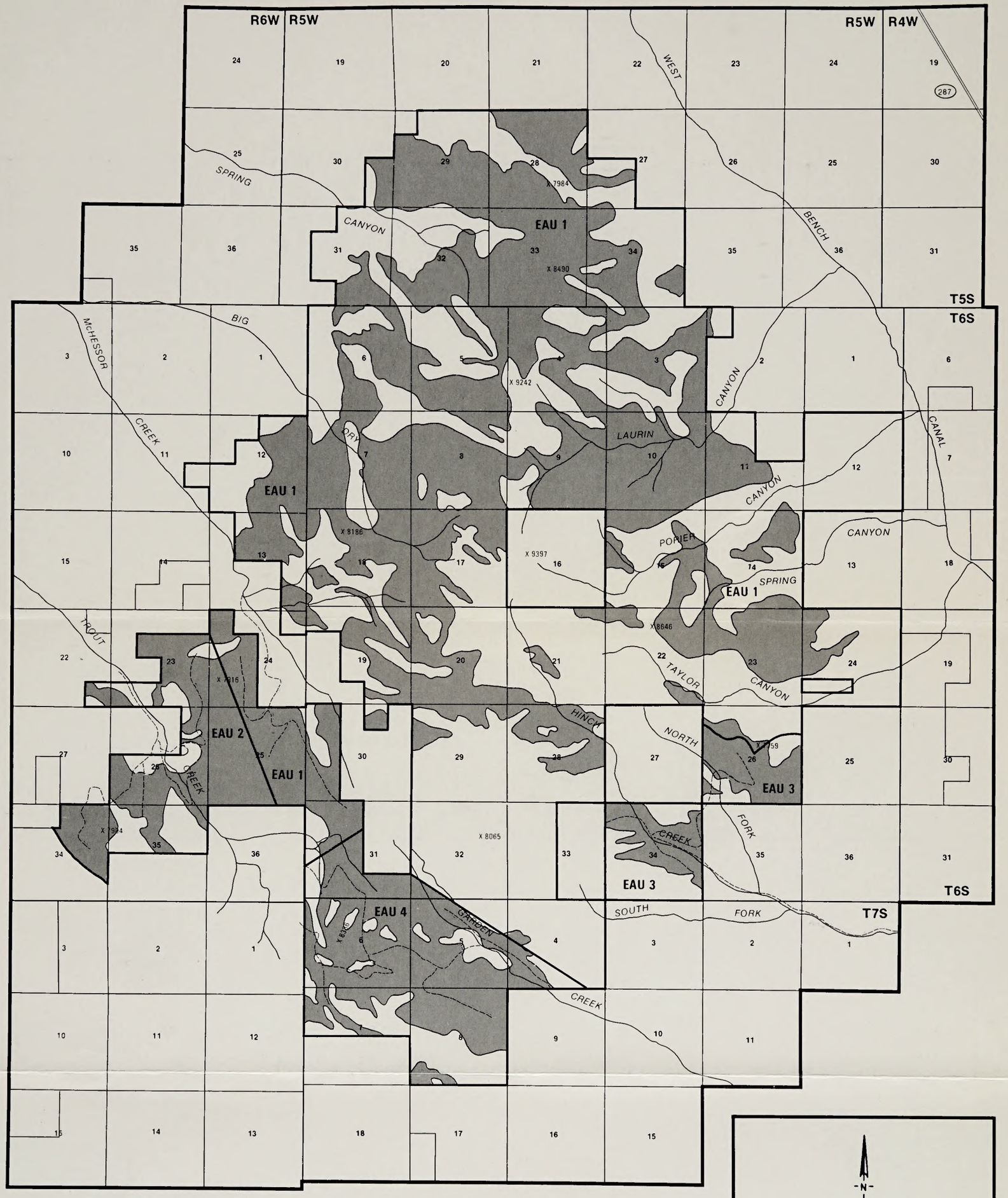
Geology

1 Area Underlain by Pre-Cambrian Marble Units. High Potential for Talc.

2 Area Underlain by Pre-Cambrian Metamorphic Units. Moderate Potential for Iron, Kyanite, Sillimanite and Other Metamorphic Minerals.

3 Areas Underlain by Paleozoic Rocks. Low Potential.

N



RUBY MOUNTAINS
MT-076-001

TIMBER MANAGEMENT

Paved Road

WSA Boundary

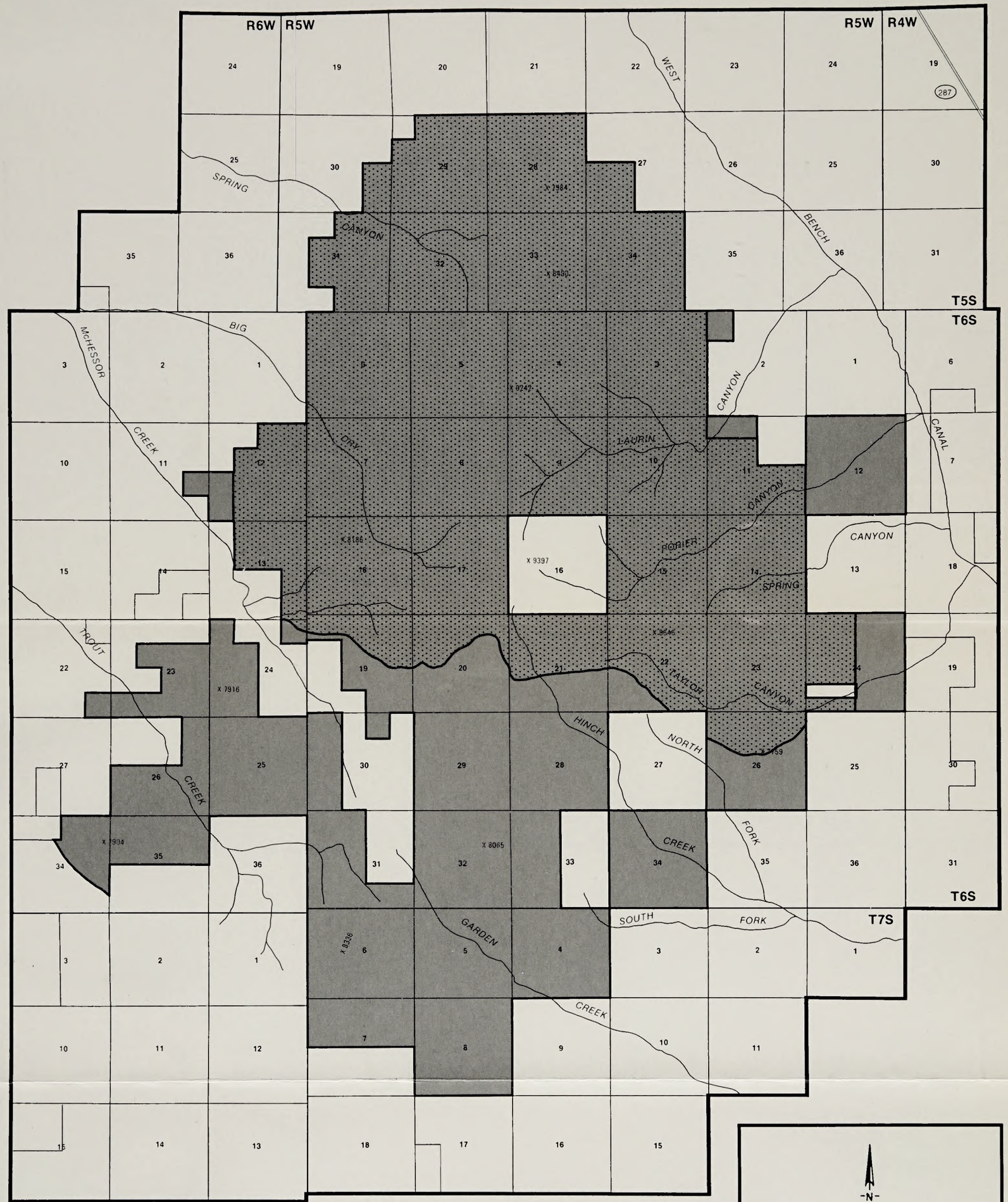
EAU — Economic Analysis Units

Commercial Timber

Proposed Roads

1 0 1 2 Miles

N



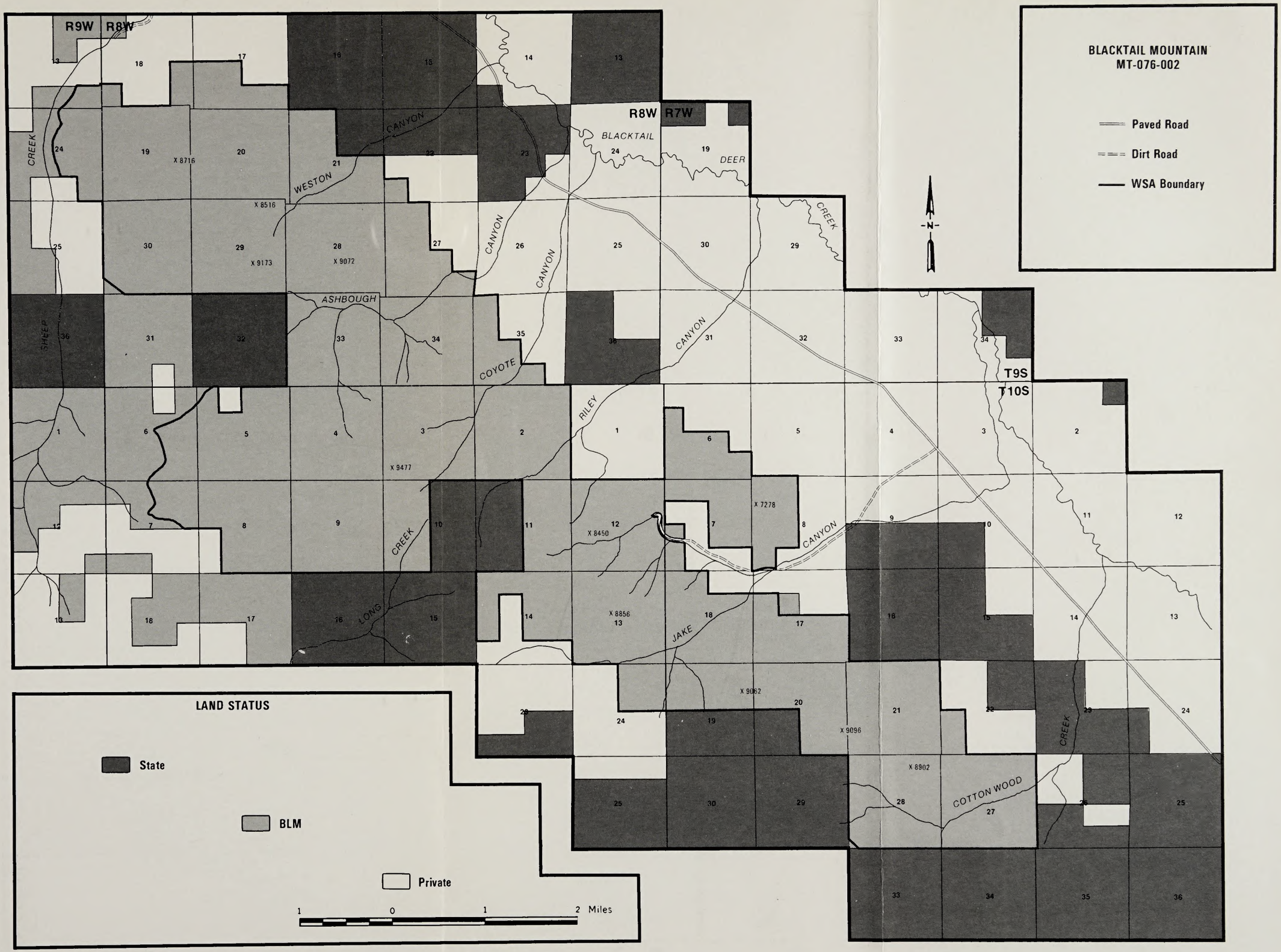
RUBY MOUNTAINS
MT-076-001

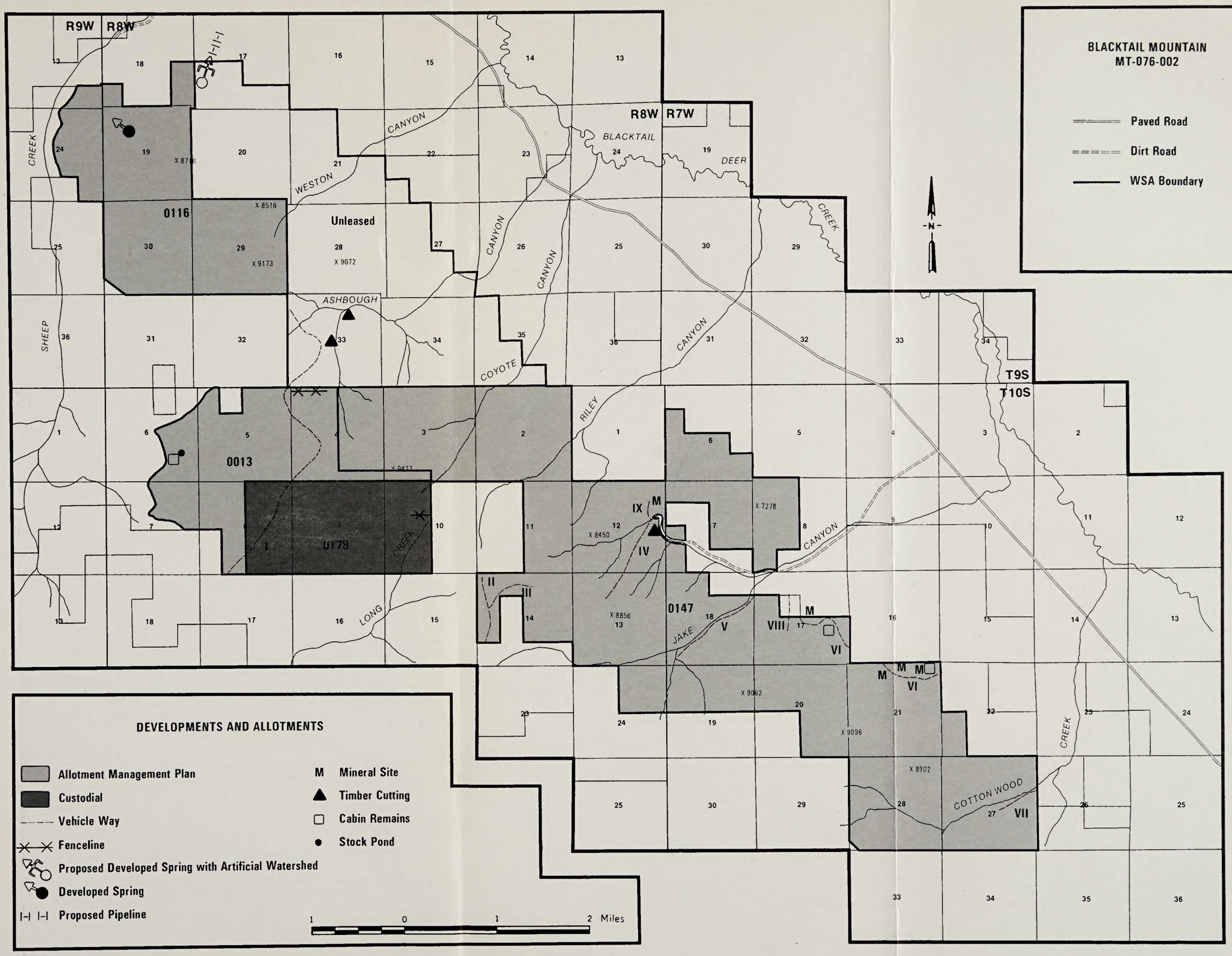
ALTERNATIVES

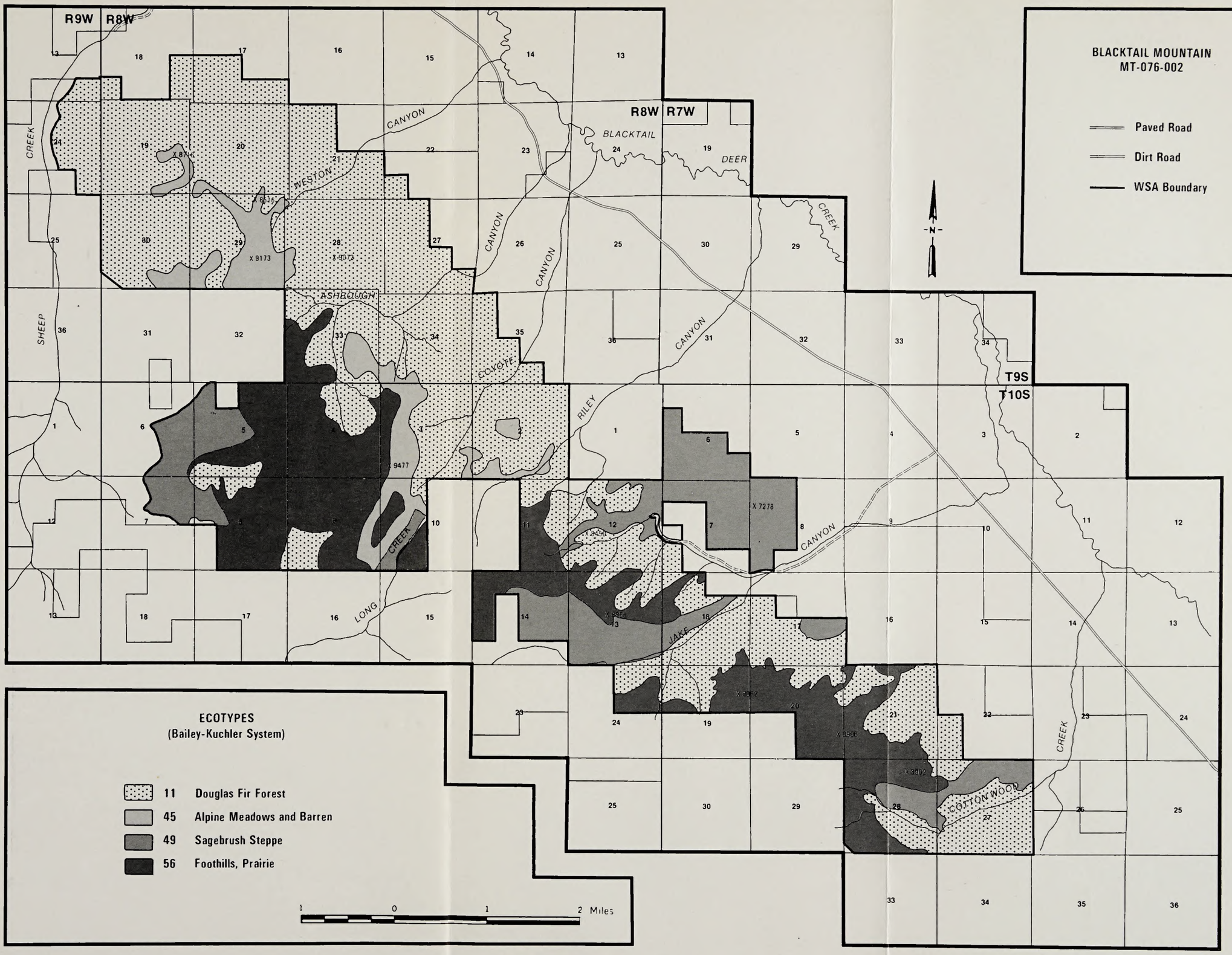
- Paved Road
- WSA Boundary
- Alternative Boundary
- R-1 All Wilderness
- R-2 No Wilderness (no portion designated as wilderness)
- R-3 Partial Wilderness

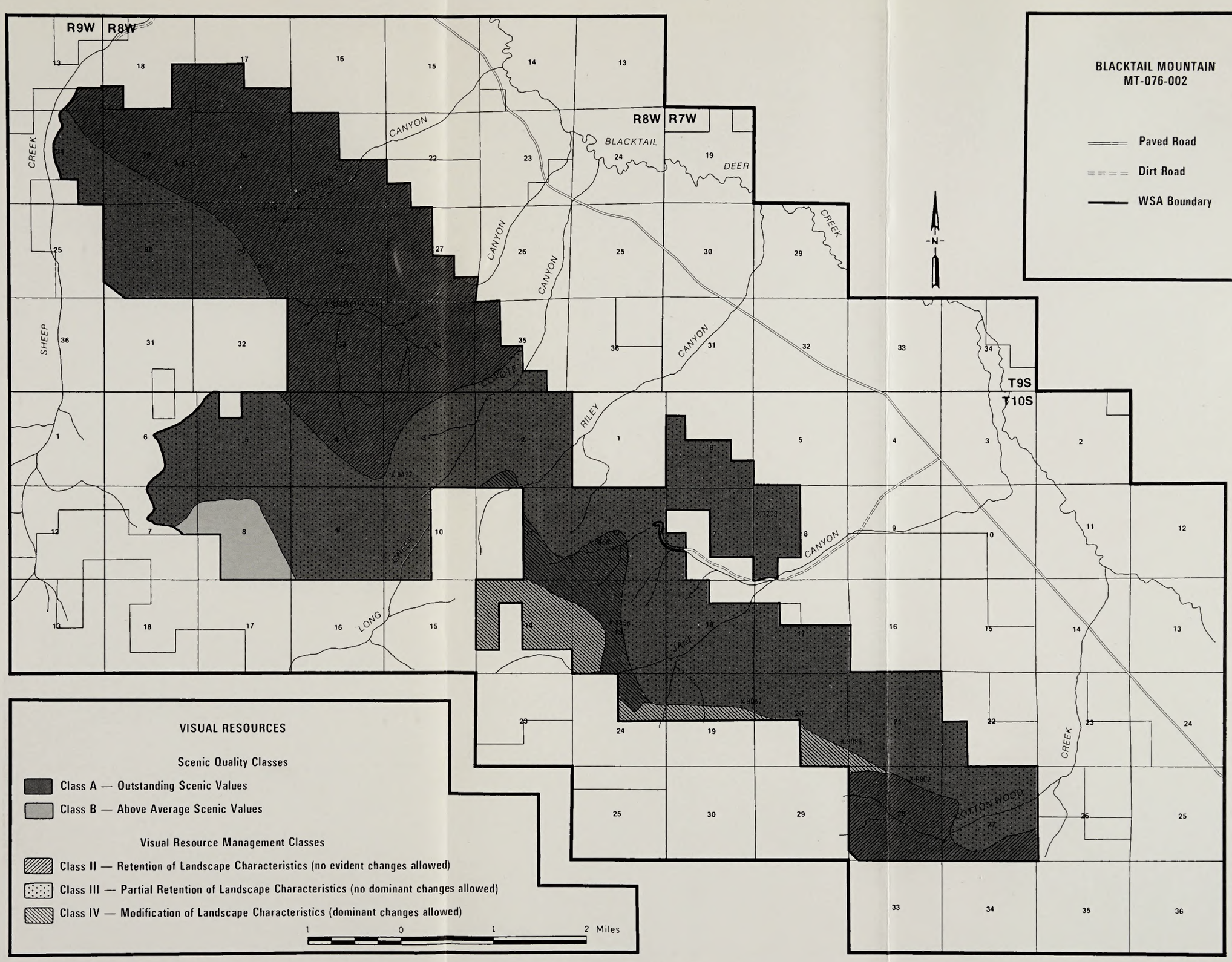
1 0 1 2 Miles

Blacktail Mountains WSA
MT-076-002

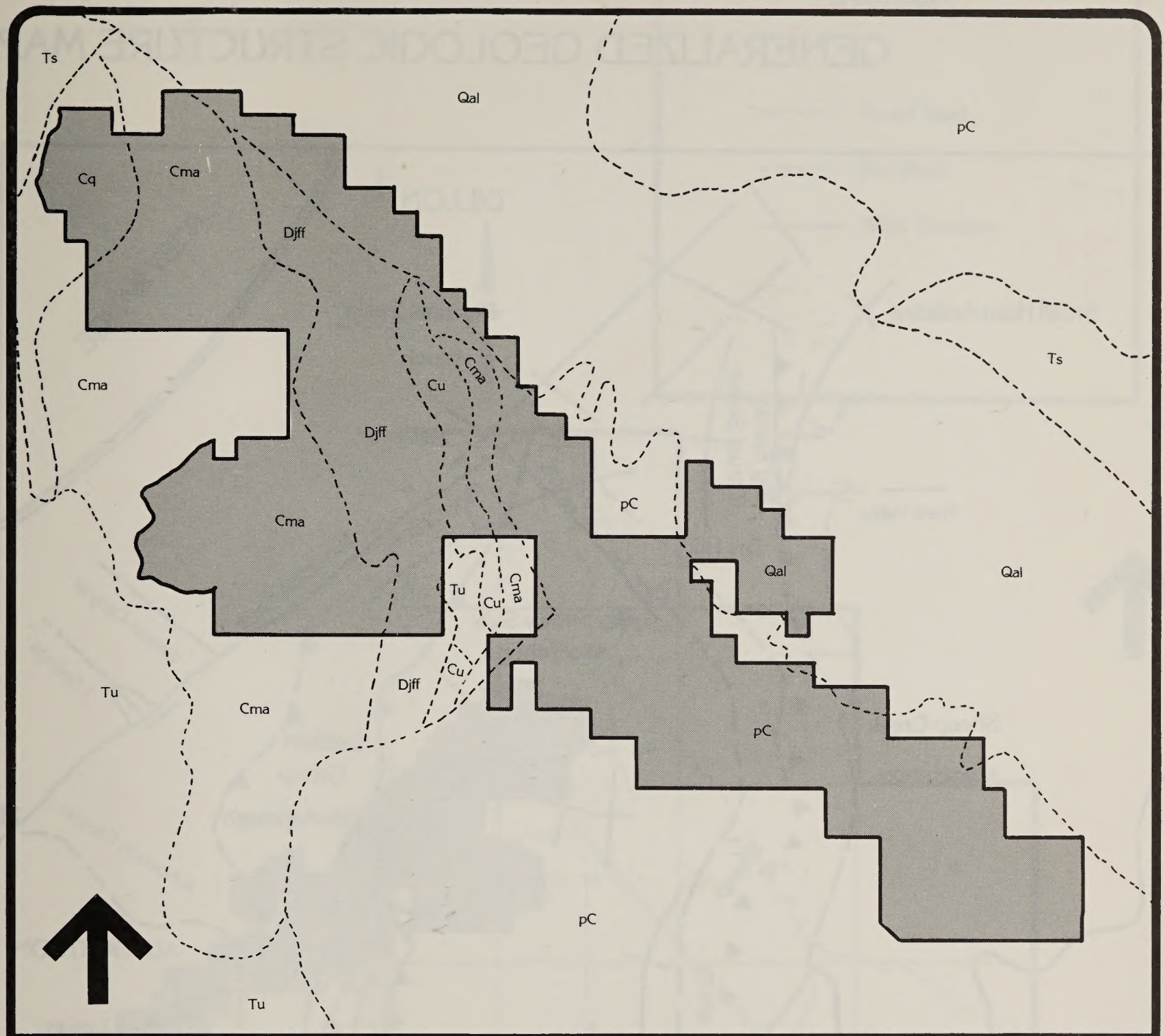

BLACKTAIL MOUNTAIN
MT-076-002
Paved Road
Dirt Road
WSA Boundary
R9W
R8W
R7W
T9S
T10S
N
CREEK
CANYON
WESTON
BLACKTAIL
DEER
ASHBOUGH
SHEEP
COYOTE
RILEY
LONG
JAKE
COTTON WOOD
X 8716
X 8516
X 9173
X 9072
X 9477
X 8450
X 7278
X 8856
X 9062
X 9096
X 8902
LAND STATUS
State
BLM
Private
1 0 1 2 Miles


BLACKTAIL MOUNTAIN
MT-076-002
Paved Road
Dirt Road
WSA Boundary
DEVELOPMENTS AND ALLOTMENTS
Allotment Management Plan
Custodial
Vehicle Way
Fenceline
Proposed Developed Spring with Artificial Watershed
Developed Spring
Proposed Pipeline
M Mineral Site
Timber Cutting
Cabin Remains
Stock Pond
1 0 1 2 Miles
R9W
R8W
R7W
T9S
T10S
0116
0013
0178
0147
Unleased
BLACKTAIL
DEER
CREEK
WESTON
CANYON
ASHBOUGH
COYOTE
RILEY
JAKE
LONG
SHEEP
COTTON WOOD
X 8716
X 8516
X 9173
X 9072
X 9477
X 8450
X 7278
X 8856
X 9062
X 9096
X 8902
I
II
III
IV
V
VI
VII
VIII
IX
M


BLACKTAIL MOUNTAIN
MT-076-002
Paved Road
Dirt Road
WSA Boundary
ECOTYPES
(Bailey-Kuchler System)
11 Douglas Fir Forest
45 Alpine Meadows and Barren
49 Sagebrush Steppe
56 Foothills, Prairie
1 0 1 2 Miles
R9W R8W
R8W R7W
T9S
T10S
N
BLACKTAIL
DEER
CREEK
CANYON
WESTON
ASHBOUGH
COYOTE
RILEY
JAKE
LONG
SHEEP
COTTONWOOD
X 9173
X 9477
X 7278


BLACKTAIL MOUNTAIN
MT-076-002
Paved Road
Dirt Road
WSA Boundary
R9W
R8W
R8W
R7W
T9S
T10S
N
BLACKTAIL
DEER
CREEK
CANYON
SHEEP
CREEK
RILEY
CANYON
LONG
CREEK
JAKE
CANYON
COTTONWOOD
CREEK
VISUAL RESOURCES
Scenic Quality Classes
Class A — Outstanding Scenic Values
Class B — Above Average Scenic Values
Visual Resource Management Classes
Class II — Retention of Landscape Characteristics (no evident changes allowed)
Class III — Partial Retention of Landscape Characteristics (no dominant changes allowed)
Class IV — Modification of Landscape Characteristics (dominant changes allowed)
1 0 1 2 Miles

BLACKTAIL MOUNTAINS WSA
GENERAL GEOLOGIC MAP



Qal Valley fil

Ts Sedimentary rocks

Tu Volcanic rocks

Ku Sedimentary rocks

Kk Kootenai formation

Ttw Thaynes(?) formation and Woodside shale

Td Dinwoody formation

Pp Phosphoria formation

Cq Quadrant formation

Cma Amsden(?) formation and Madison Limestone

Djtf Three Forks(?) shale and Jefferson dolomite

Cd Undifferentiated Cambrian sedimentary rocks

Cu Dry Creek shale and Woolsey(?) shale

Cf Flathead quartzite

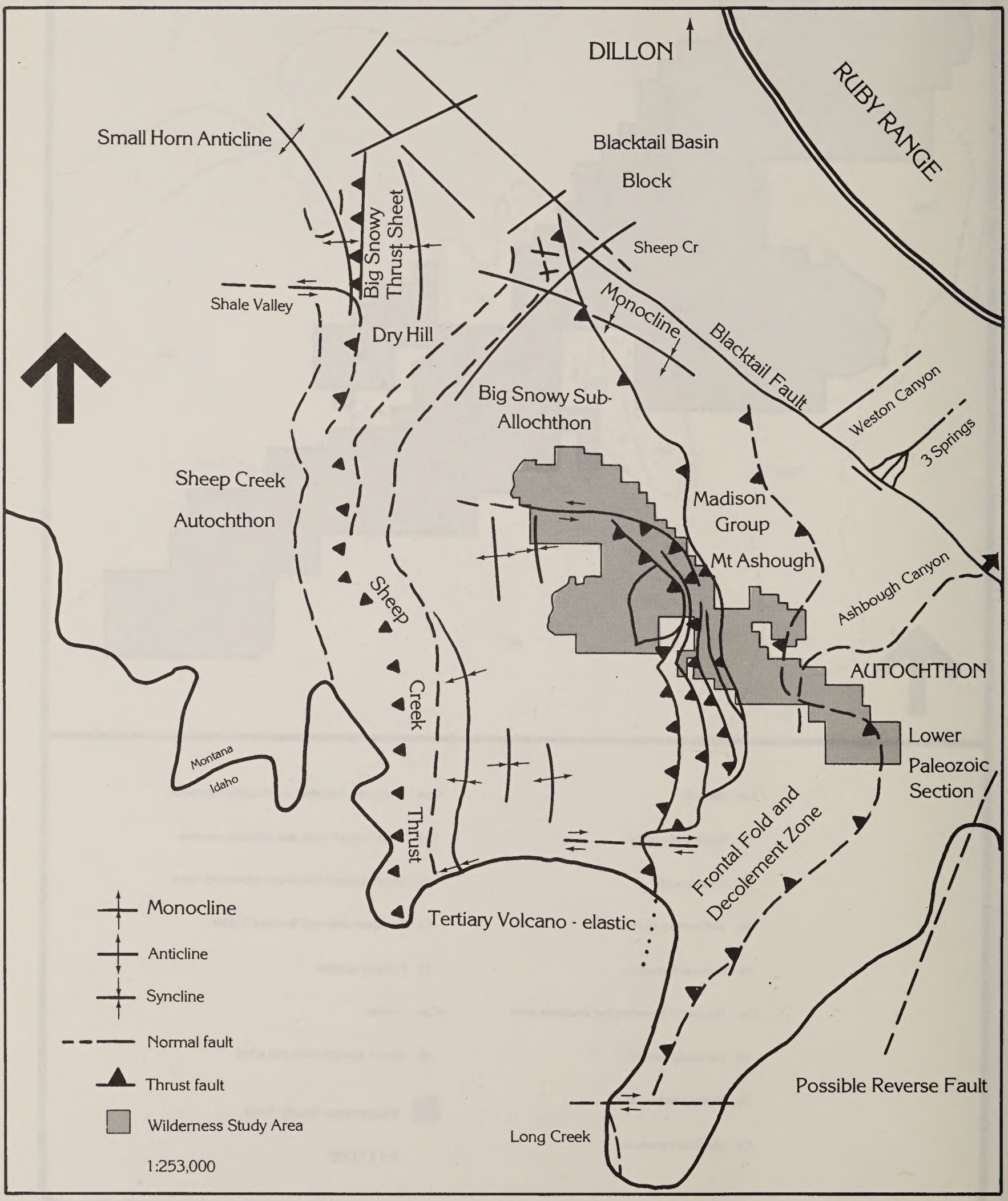
pCgn Gneissic

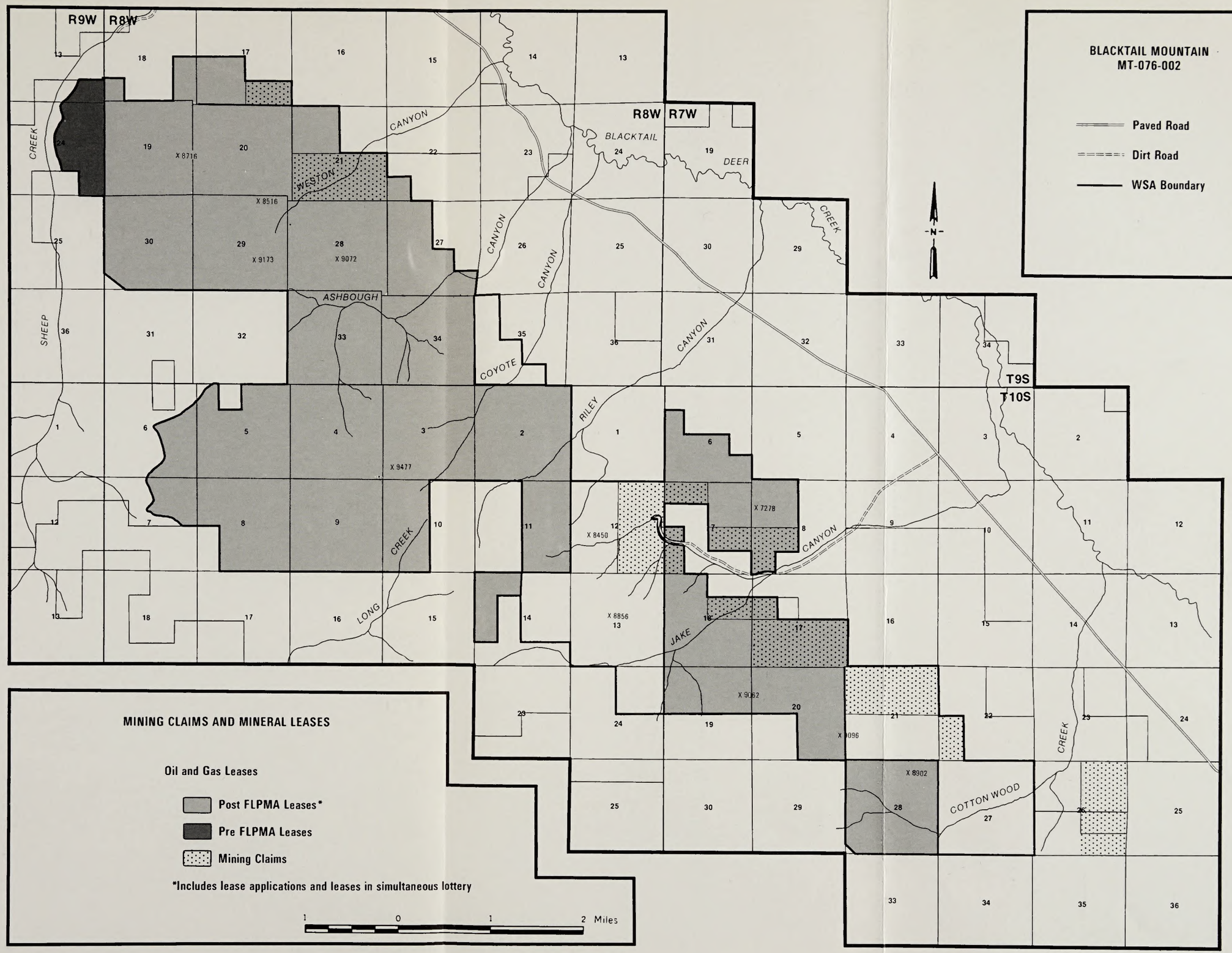
pC Marble, quartzite mica and schist

Wilderness Study Area

1:113,000

BLACKTAIL MOUNTAINS WSA
GENERALIZED GEOLOGIC STRUCTURE MAP




BLACKTAIL MOUNTAIN
MT-076-002
Paved Road
Dirt Road
WSA Boundary
R9W R8W
R8W R7W
T9S
T10S
N
CREEK
CANYON
WESTON
BLACKTAIL
DEER
CREEK
CANYON
CANYON
ASHBOUGH
SHEEP
COYOTE
RILEY
CANYON
CREEK
X 8716
X 8516
X 9173
X 9072
X 9477
X 8450
X 7278
X 8856
X 9062
X 9096
X 8902
LONG
JAKE
COTTON WOOD
MINING CLAIMS AND MINERAL LEASES
Oil and Gas Leases
Post FLPMA Leases*
Pre FLPMA Leases
Mining Claims
*Includes lease applications and leases in simultaneous lottery
1 0 1 2 Miles

BLACKTAIL MOUNTAIN
MT-076-002

Paved Road

Dirt Road

WSA Boundary

R9W R8W

R8W R7W

T9S
T10S

Blacktail Fault

Blacktail Fault

MINERAL POTENTIAL

Geology

1 Paleozoic Sediments Blacktail Fault Area. Good potential for small structurally controlled deposits of Ag, w/cu, Au, + Zn possibly barite associated with Paleozoic sediments.

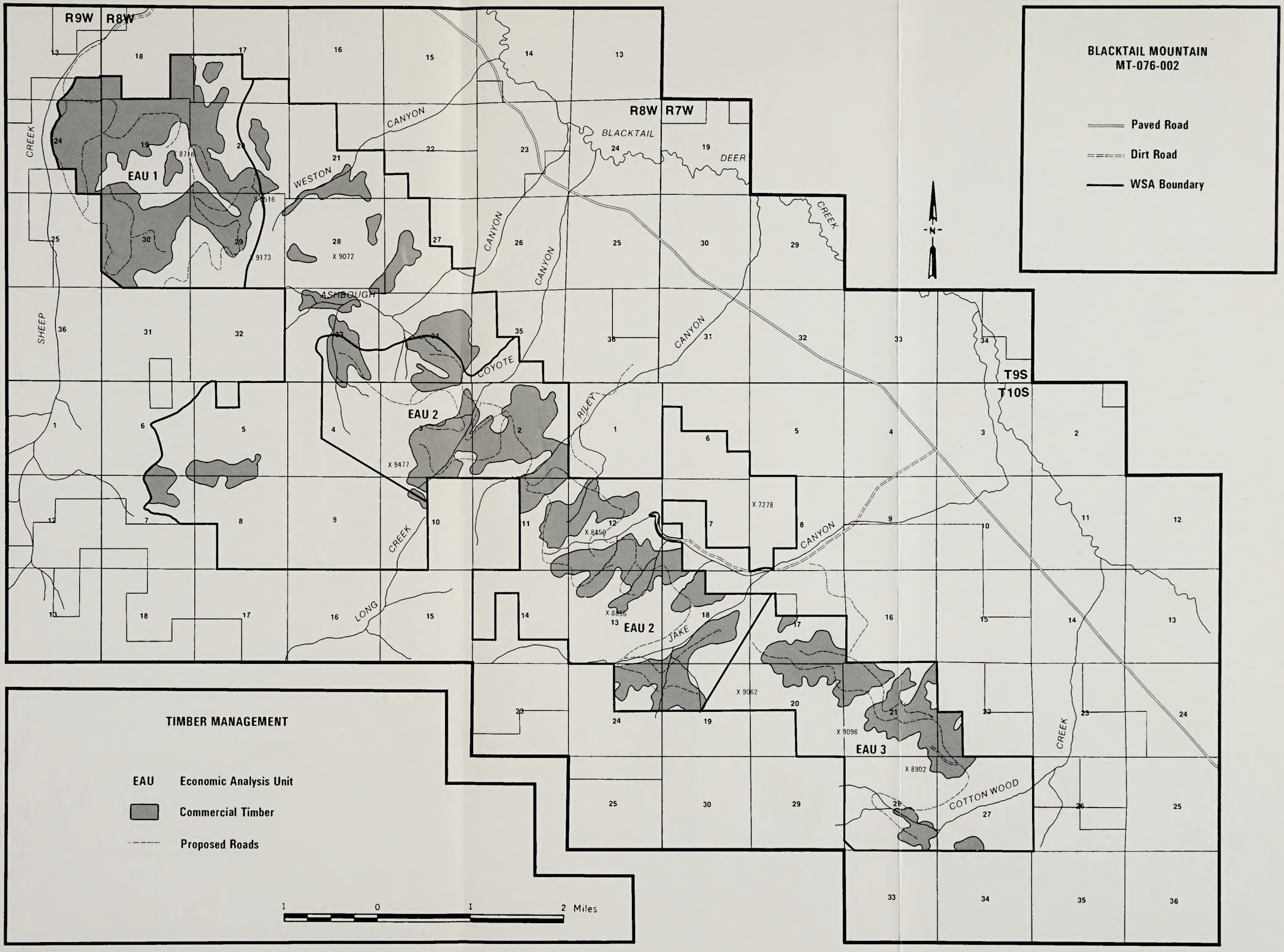
2 Jake Creek Ultramafic Intrusion. Fair potential for secondary Ni, generally low grade.

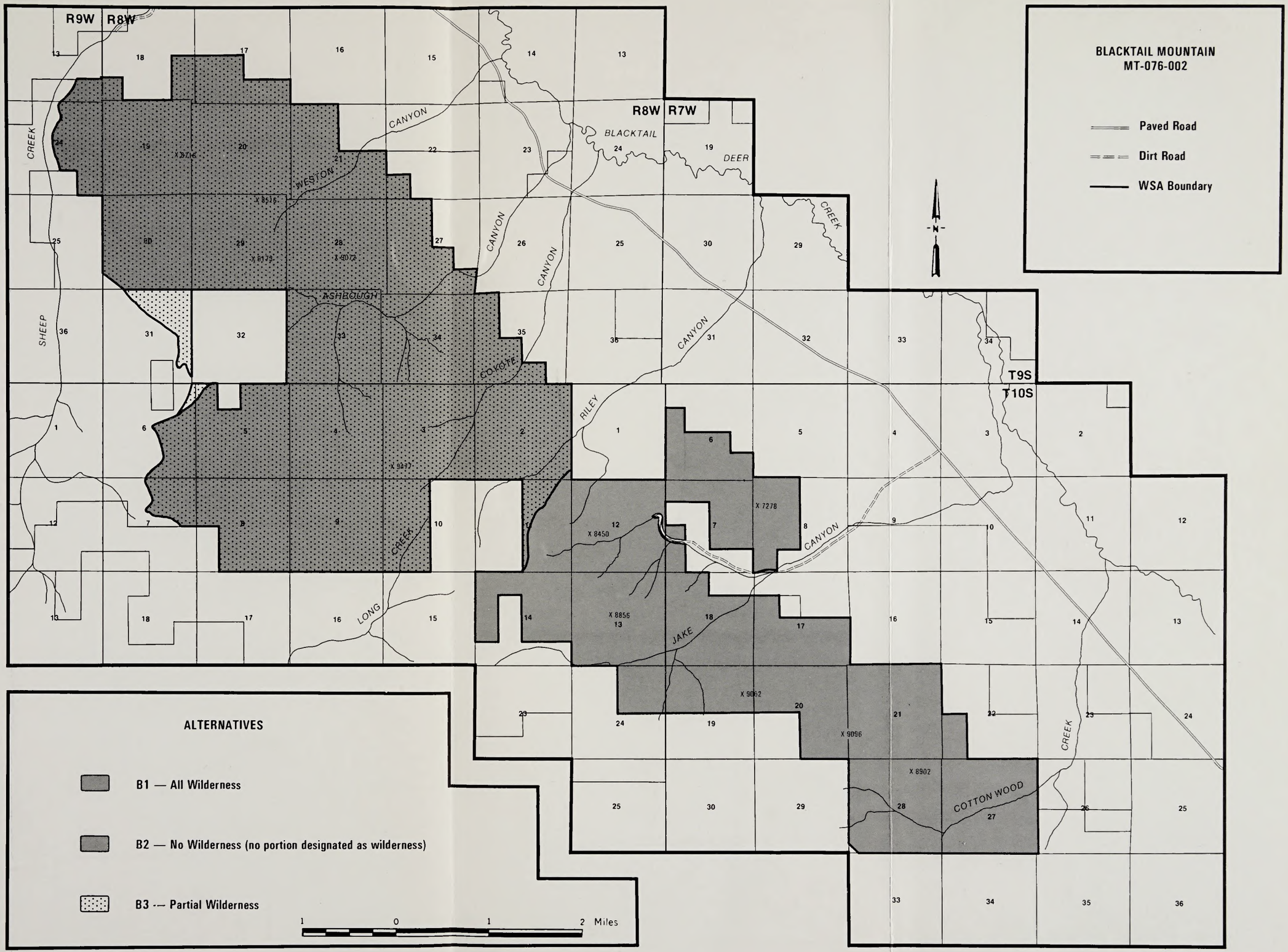
3 Pre-Cambrian, Pre Cherry Creek. Fair potential for talc, graphite, chlorite and other "metamorphic" minerals.

4 Pre-Cambrian Dillon Granite Gneiss. Low potential.

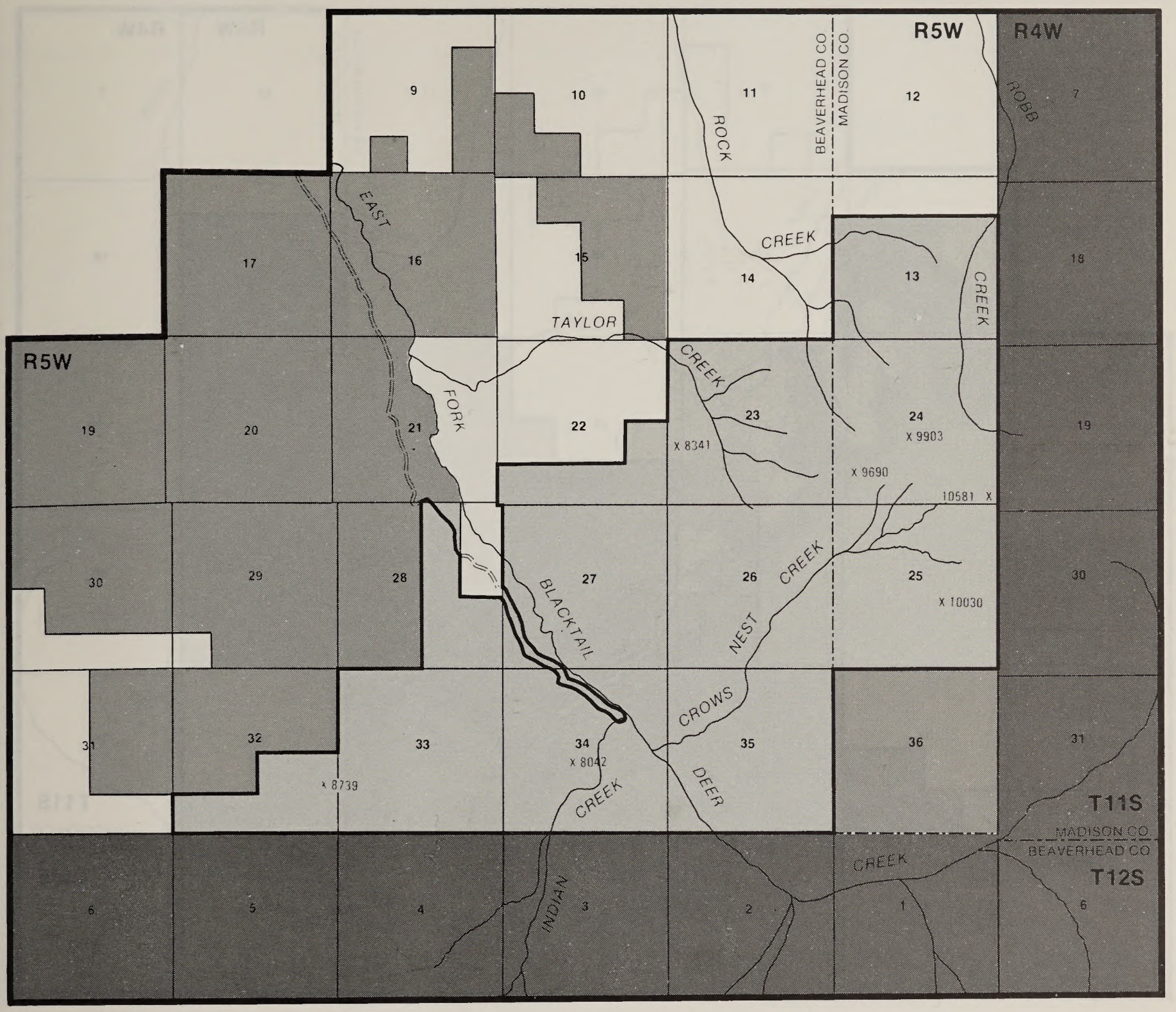
5 Paleozoic Sediments. Low potential.

1 0 1 2 Miles


BLACKTAIL MOUNTAIN
MT-076-002
Paved Road
Dirt Road
WSA Boundary
R9W
R8W
R7W
T9S
T10S
EAU 1
EAU 2
EAU 3
CREEK
CANYON
WESTON
BLACKTAIL
DEER
ASHBOUGH
SHEEP
COYOTE
RILEY
LONG
JAKE
COTTON WOOD
X 8716
X 9516
9173
X 9072
X 9477
X 8456
X 7278
X 8450
X 9062
X 9096
X 8902
N
TIMBER MANAGEMENT
EAU Economic Analysis Unit
Commercial Timber
Proposed Roads
1 0 1 2 Miles


BLACKTAIL MOUNTAIN
MT-076-002
Paved Road
Dirt Road
WSA Boundary
R9W
R8W
R7W
T9S
T10S
N
CREEK
CANYON
WESTON
BLACKTAIL
DEER
ASHBOUGH
SHEEP
COYOTE
RILEY
LONG
JAKE
COTTON WOOD
X 8716
X 8516
X 8179
X 8072
X 9077
X 8450
X 7278
X 8856
X 9062
X 9096
X 8902
ALTERNATIVES
B1 — All Wilderness
B2 — No Wilderness (no portion designated as wilderness)
B3 — Partial Wilderness
1 0 1 2 Miles

East Fork of Blacktail Deer Creek WSA
MT-076-007



EAST FORK
MT-076-007

-N-

==== Dirt Road

—— WSA Boundary

---- County Boundary

0 1 2 Miles

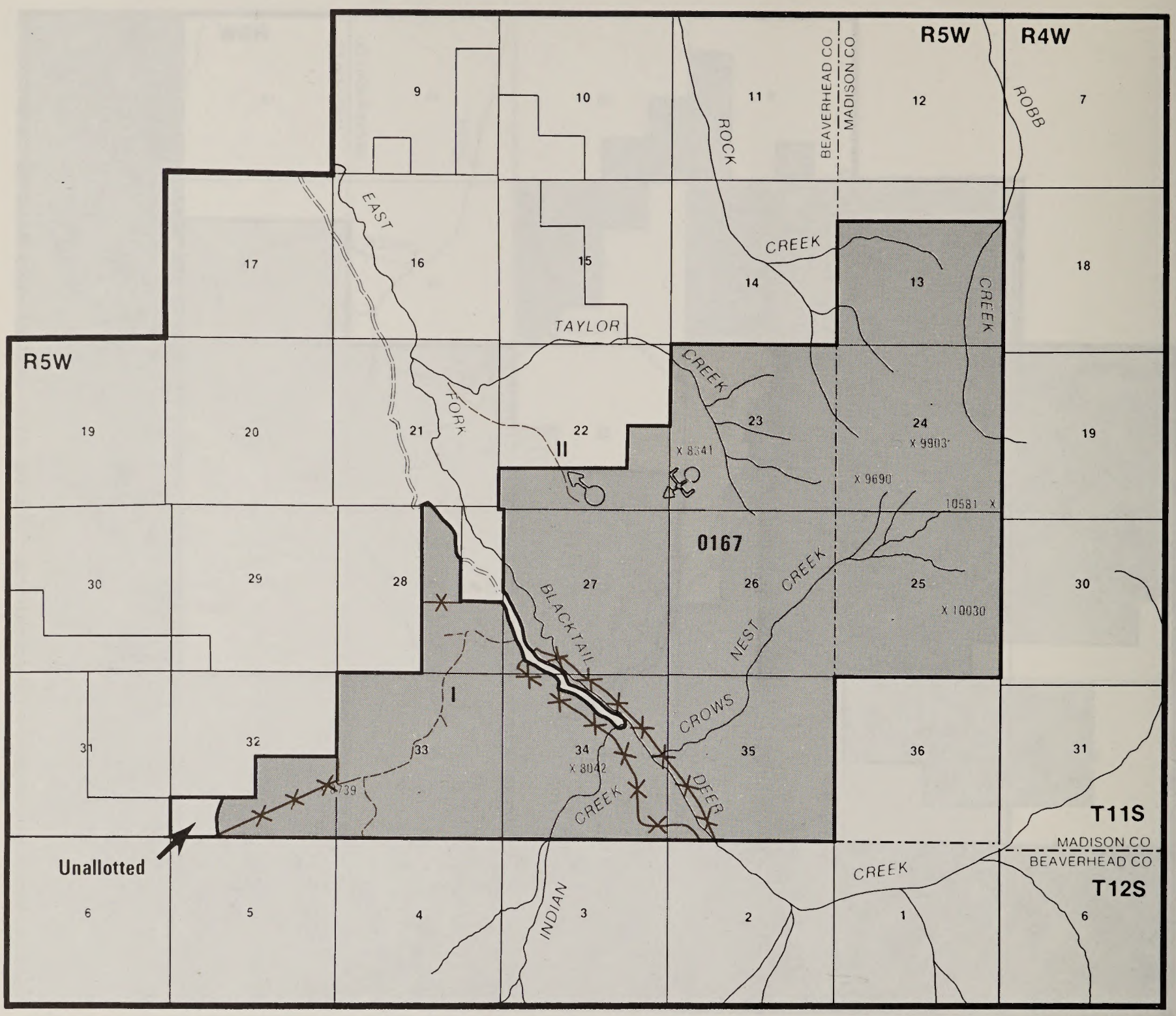
LAND STATUS

Forest Service

State

BLM

Private



EAST FORK
MT-076-007

-N-

Dirt Road

WSA Boundary

County Boundary

0 1 2 Miles

DEVELOPMENTS AND ALLOTMENTS

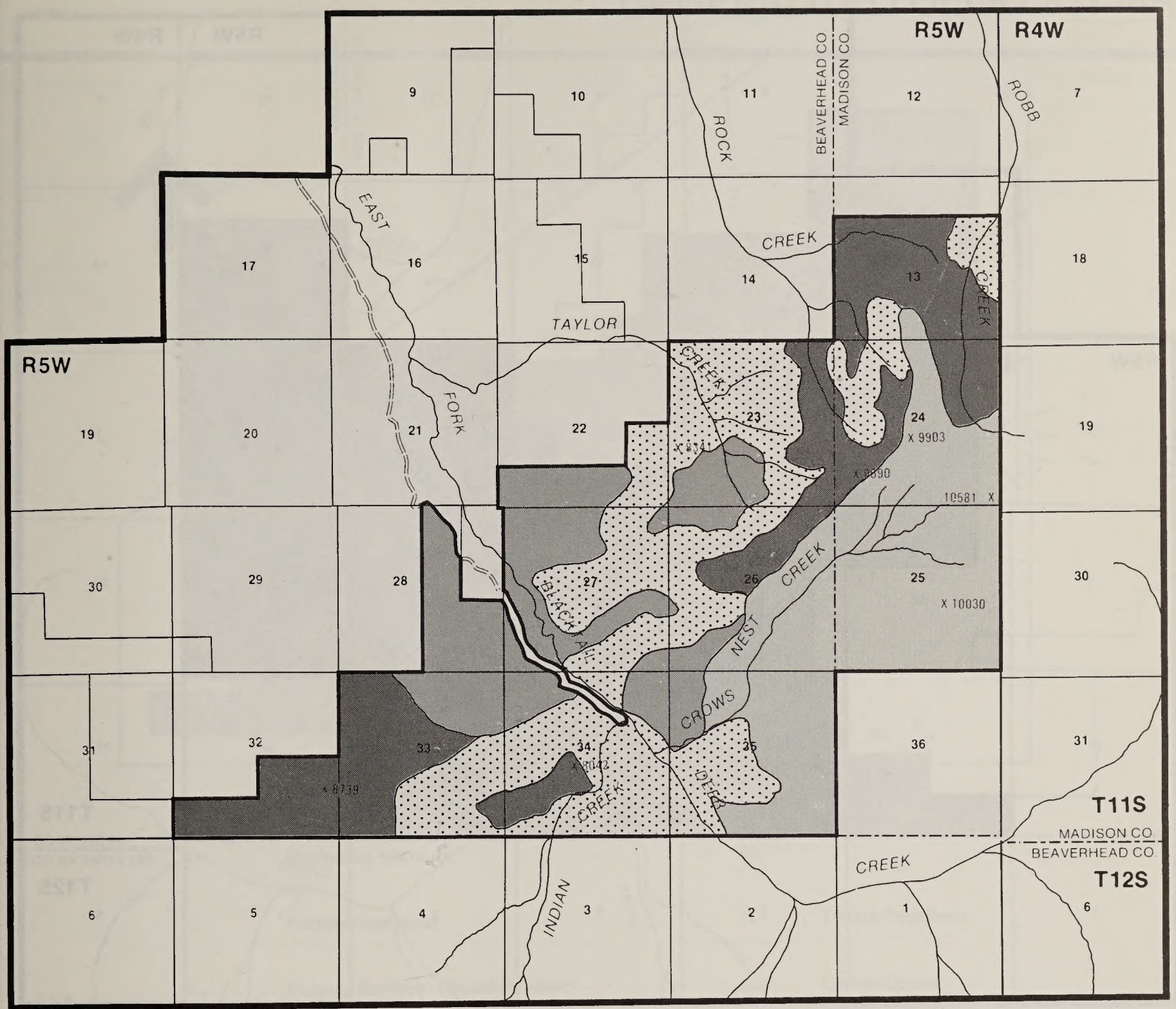
Allotment Management Plan

Fenceline

Vehicle Way

Proposed Developed Spring

Proposed Developed Spring with Artificial Watershed



EAST FORK
MT-076-007

N

Dirt Road

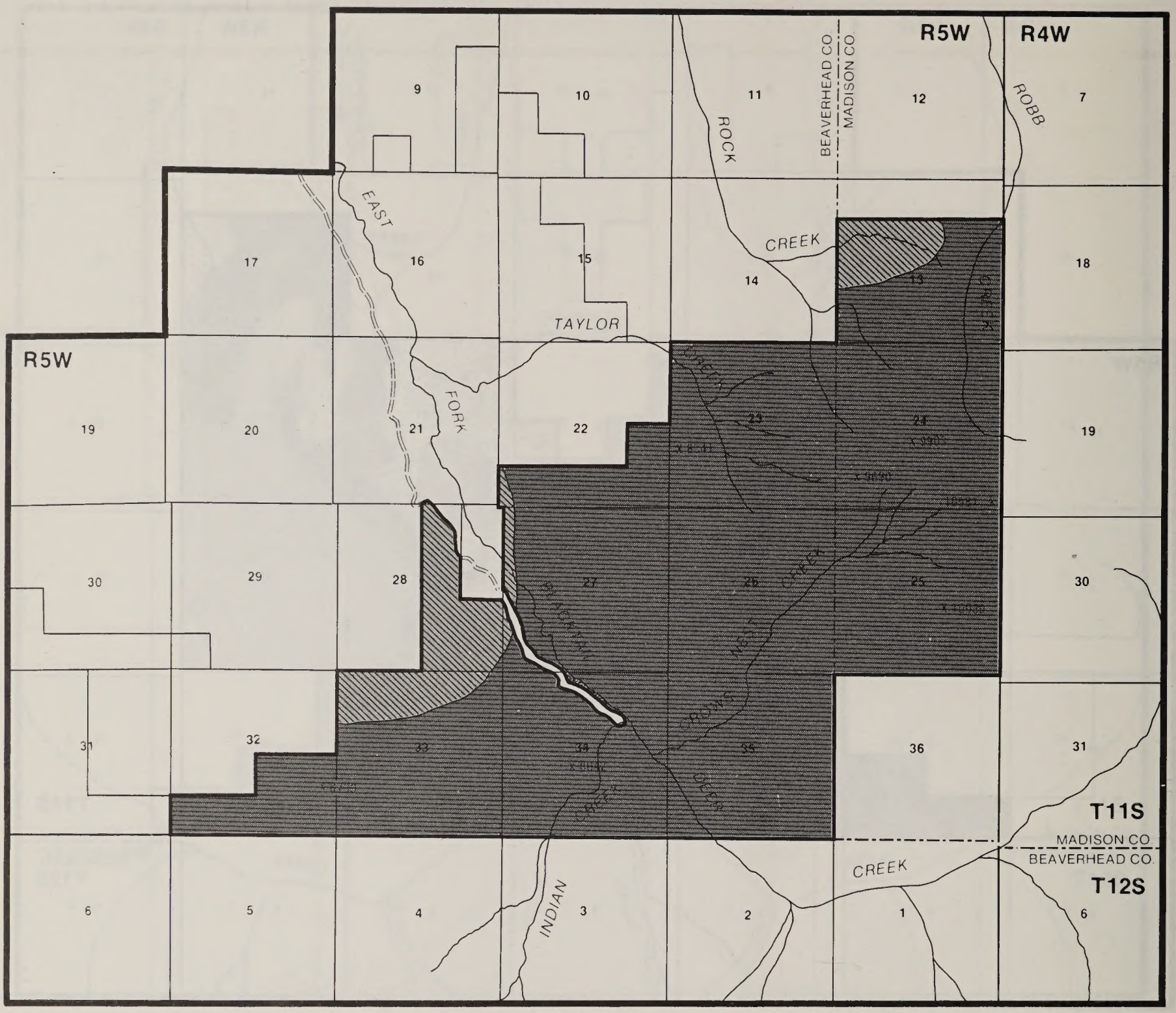
WSA Boundary

County Boundary

0 1 2 Miles

ECOTYPES
(Bailey-Kuchler System)

11	Douglas Fir Forest		49	Sagebrush Steppe
45	Alpine Meadows and Barren		56	Foothills, Prairie



EAST FORK
MT-076-007

-N-

Dirt Road

WSA Boundary

County Boundary

0 1 2 Miles

VISUAL RESOURCES

Scenic Quality Classes

Class A — Outstanding Scenic Values

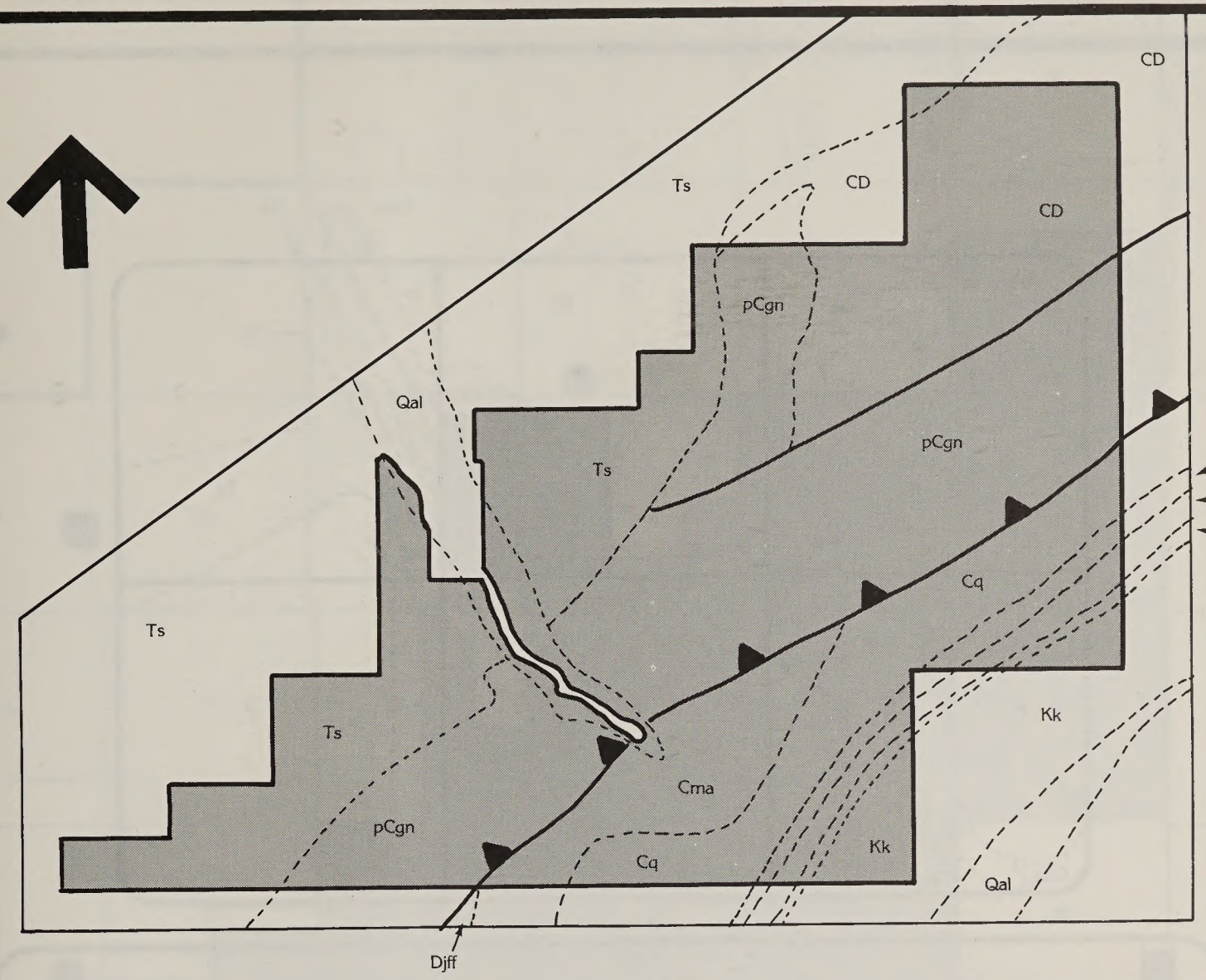
Class C — Average Scenic Values

Visual Resource Management Classes

Class II — Retention of Landscape Characteristics (no evident changes allowed)

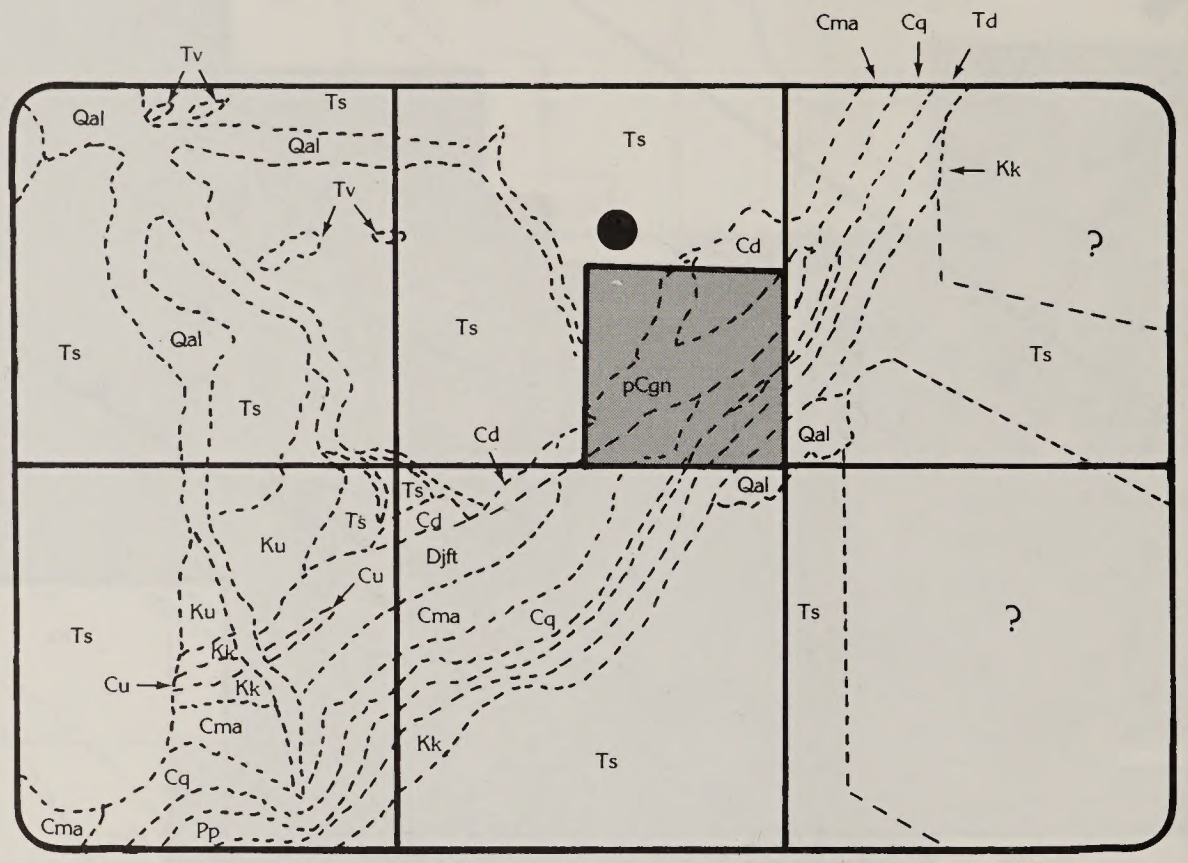
Class IV — Modification of Landscape Characteristics (dominant changes allowed)

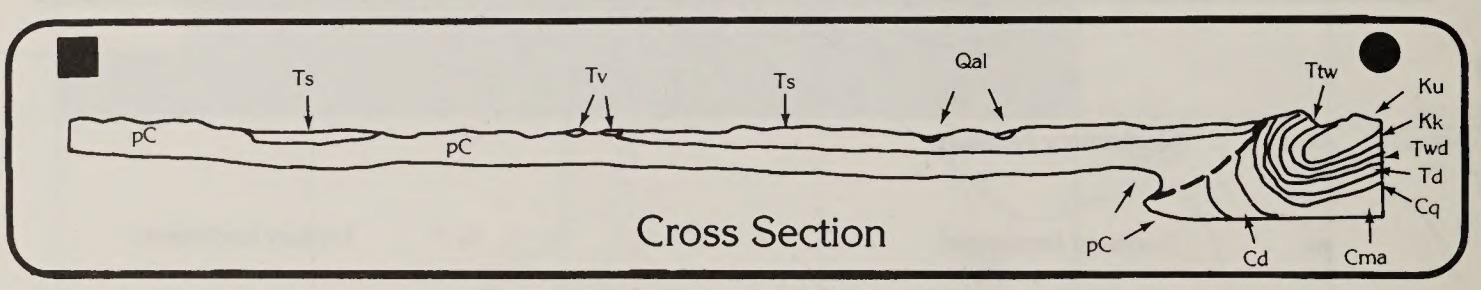
EAST FORK WSA
GENERALIZED GEOLOGY MAP



Qal	Quaternary Alluvium	CD	?
Kk	Kootenai formation	Ts	Tertiary Sediments
Ttw	Thayneg formation (Woodside shale)	pCgn	Granite Gneiss
Td	Dinwoody formation		Normal fault
Pp	Phosphoria formation		Thrust fault
Ca	Quadrant Quartzite		Wilderness Study Area
Cma	Madison/Amsolen formation		
Djtf	Three Forks formation (Jefferson shale)		1:63360

EAST FORK WSA
REGIONAL GEOLOGY MAP





Cross Section

Qal Valley Fill

Ts Sedimentary rocks

Tv Volcanic rocks

Angular Unconformity

Ku Sedimentary rocks

Kk Kootenai formation

Disconformity

Ttw Thaynes(?) & Woodside(?) shale

Tcl Dinwoody formation

Cq Quadrant formation

Pp Phosphoria formation

Cma Amsden(?) formation & Madison Limestone

Djtf Three Forks(?) shale & Jefferson dolomite

Disconformity

Cu Dry Creek(?) shale

Cd Undifferentiated Cambrian & P Devonian sedimentary rocks

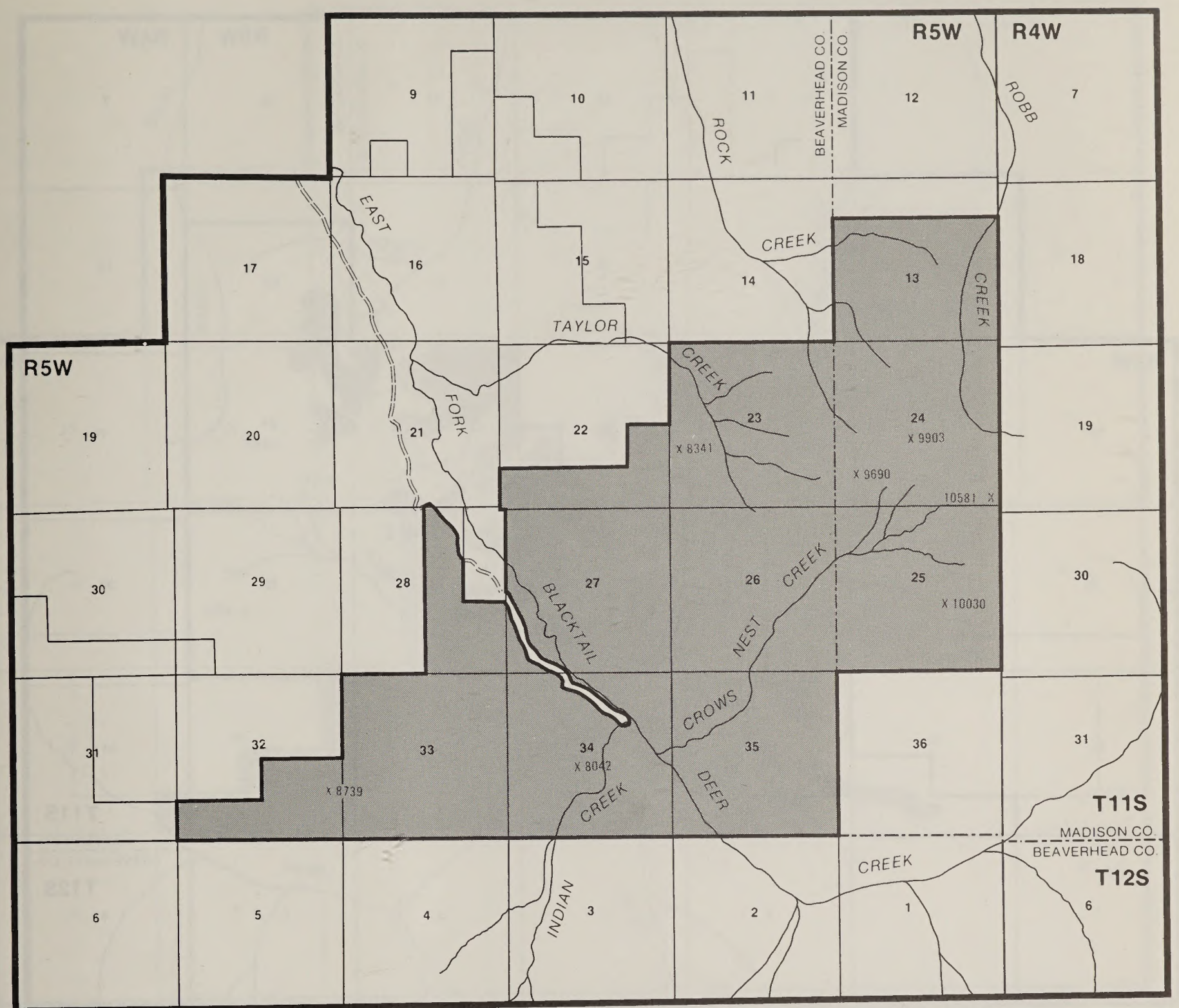
Angular Unconformity

pCgn Gneissic rocks

pC Marble quartzite

Wilderness Study Area

1:253,000



EAST FORK
MT-076-007

MINING CLAIMS AND MINERAL LEASES

-N-

=== Dirt Road

——— WSA Boundary

– – – – County Boundary

Oil and Gas Leases

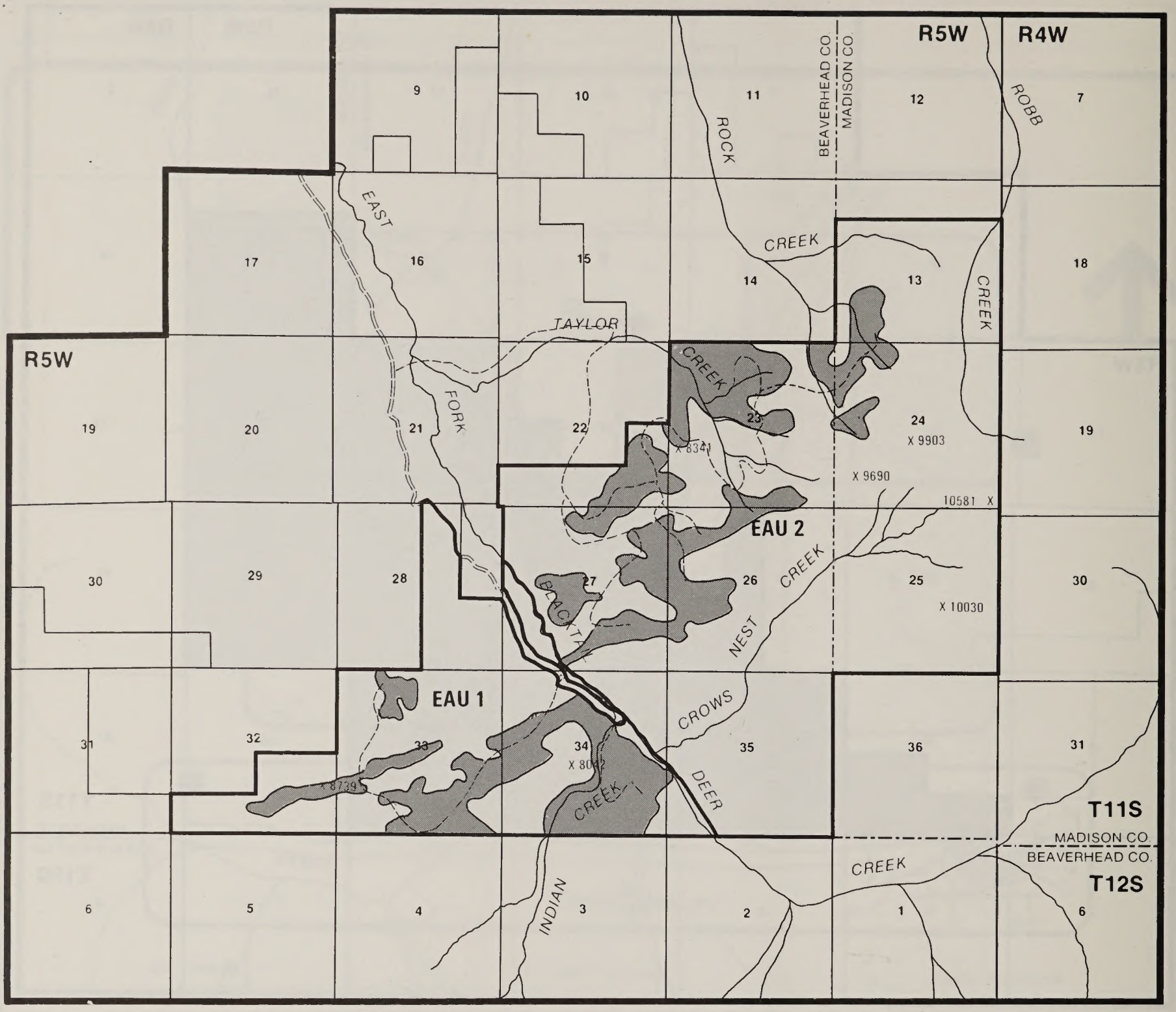
Post FLPMA Leases*

Pre FLPMA Leases (NONE)

Mining Claims (NONE)

*Includes lease applications and leases in simultaneous lottery

0 1 2 Miles



EAST FORK
MT-076-007

TIMBER MANAGEMENT

-N-

Dirt Road

WSA Boundary

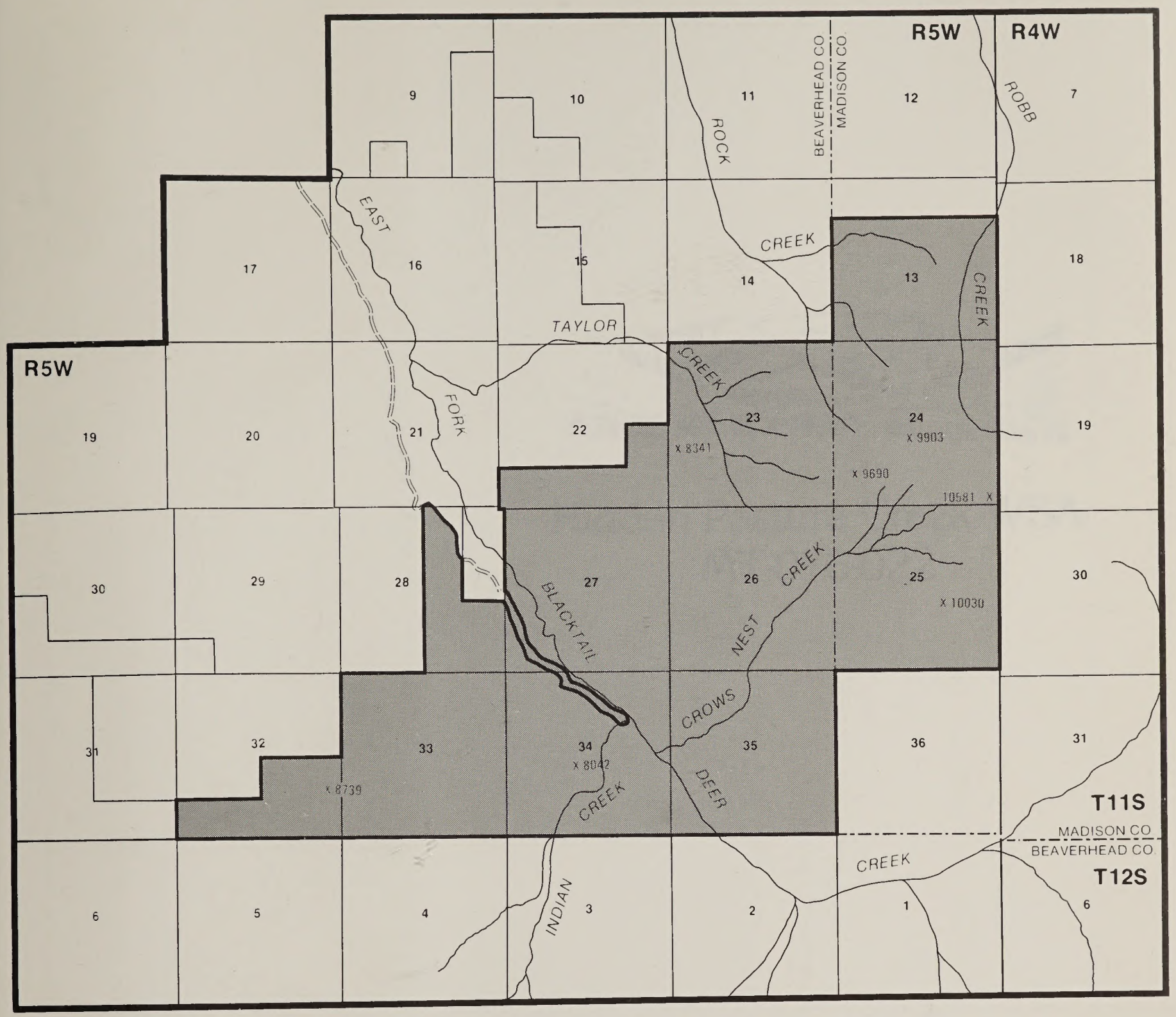
County Boundary

EAU Economic Analysis Units

Proposed Roads

Commercial Timber

0 1 2 Miles



EAST FORK
MT-076-007

-N-

Dirt Road

WSA Boundary

County Boundary

0 1 2 Miles

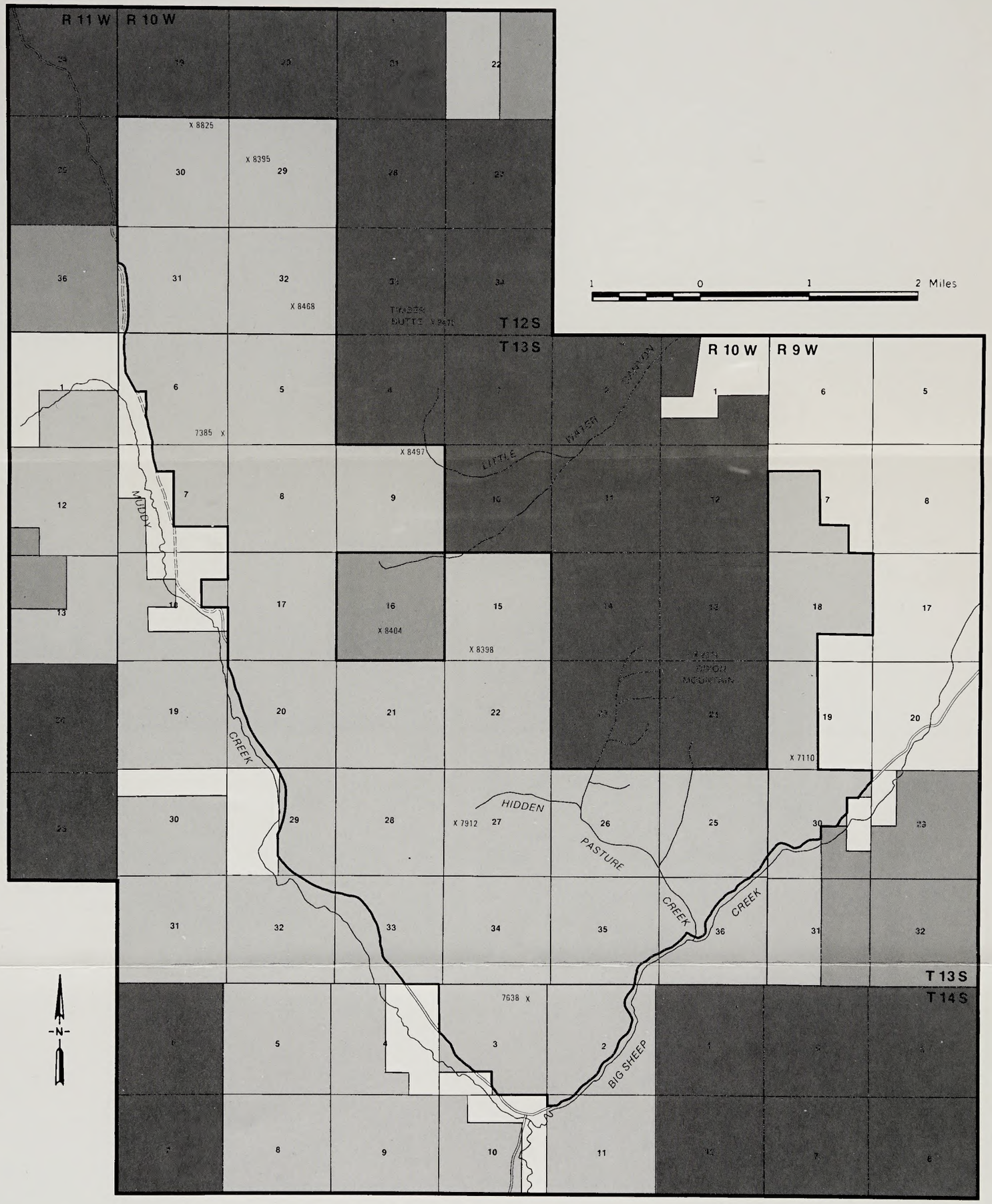
ALTERNATIVES

Alternative Boundary

EF-1 All Wilderness

EF-2 No Wilderness (no portion designated as wilderness)

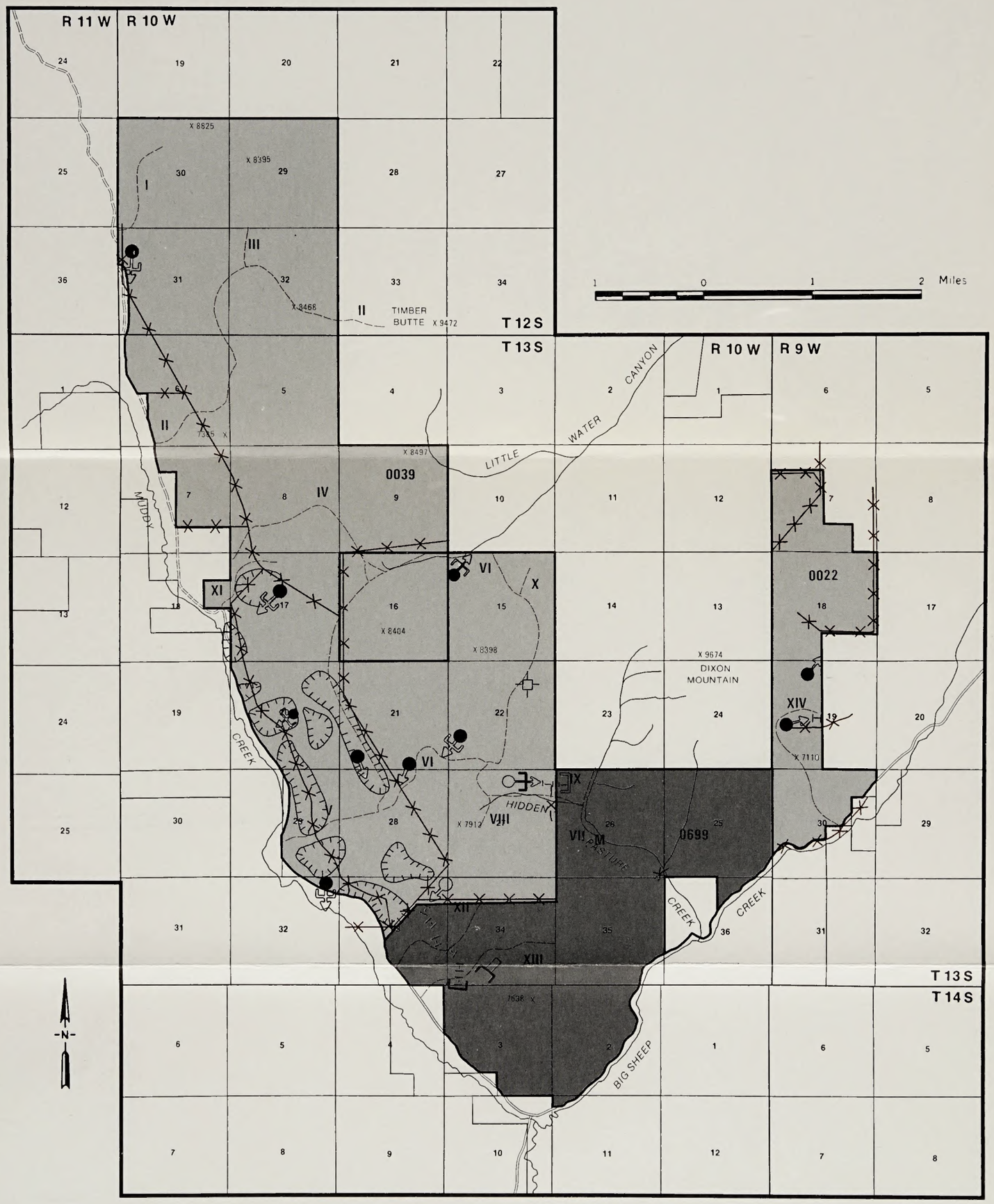
Hidden Pasture Creek WSA
MT-076-022



HIDDEN PASTURE
MT-076-022

LAND STATUS

- Paved Road
- Dirt Road
- WSA Boundary
- Forest Service
- State
- BLM
- Private



HIDDEN PASTURE
MT-076-022

Paved Road
Dirt Road
WSA Boundary

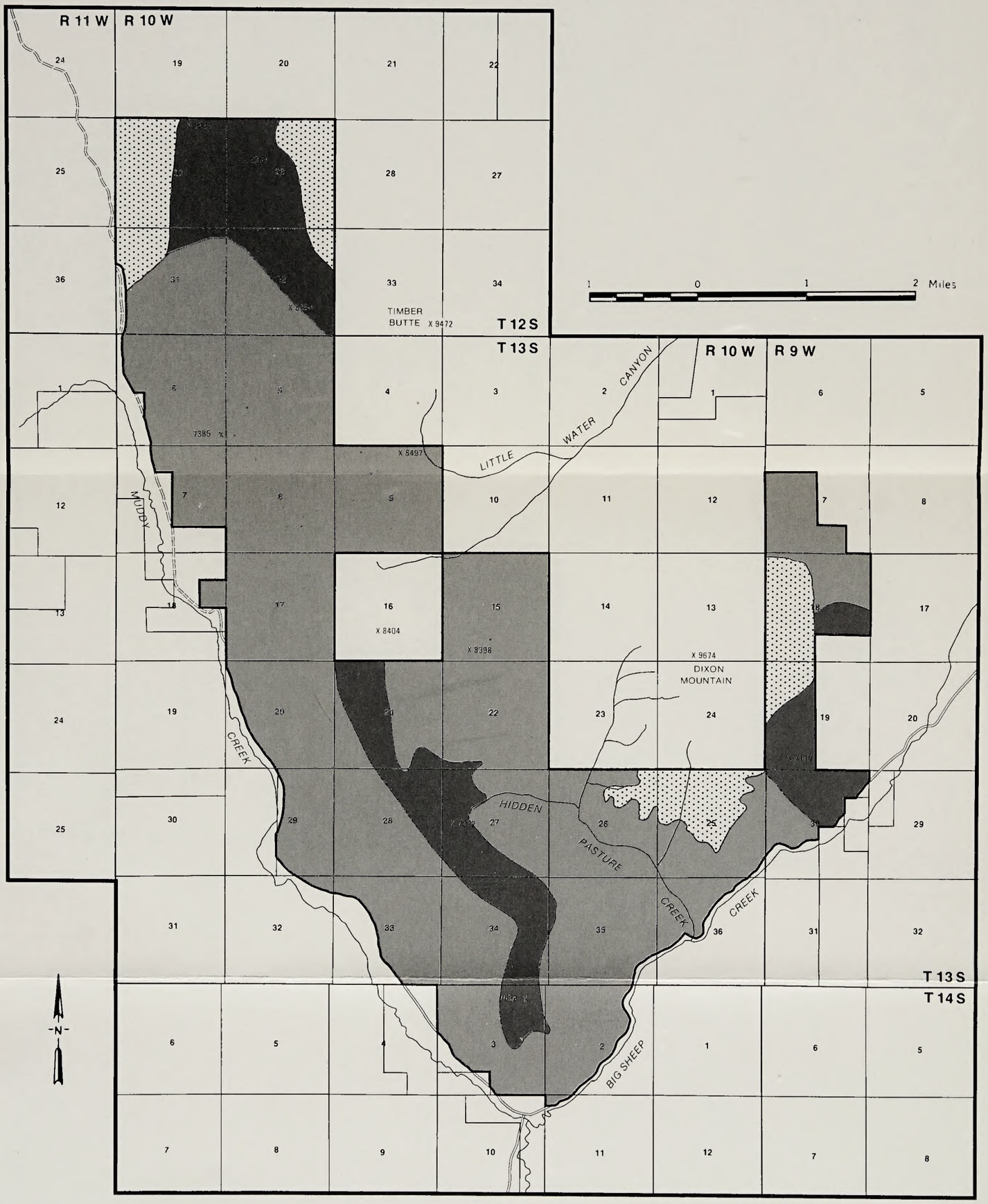
Allotment Management Plan
Proposed Allotment Management Plan
Vehicle Way
Proposed Fenceline
Fenceline

DEVELOPMENTS AND ALLOTMENTS

Pipeline
Proposed Pipeline
Proposed Burn
Proposed Retention Dam
Developed Spring with Artificial Watershed

Developed Spring
Proposed Developed Spring
M Mineral Site
Exclosure

WEIR



HIDDEN PASTURE
MT-076-022

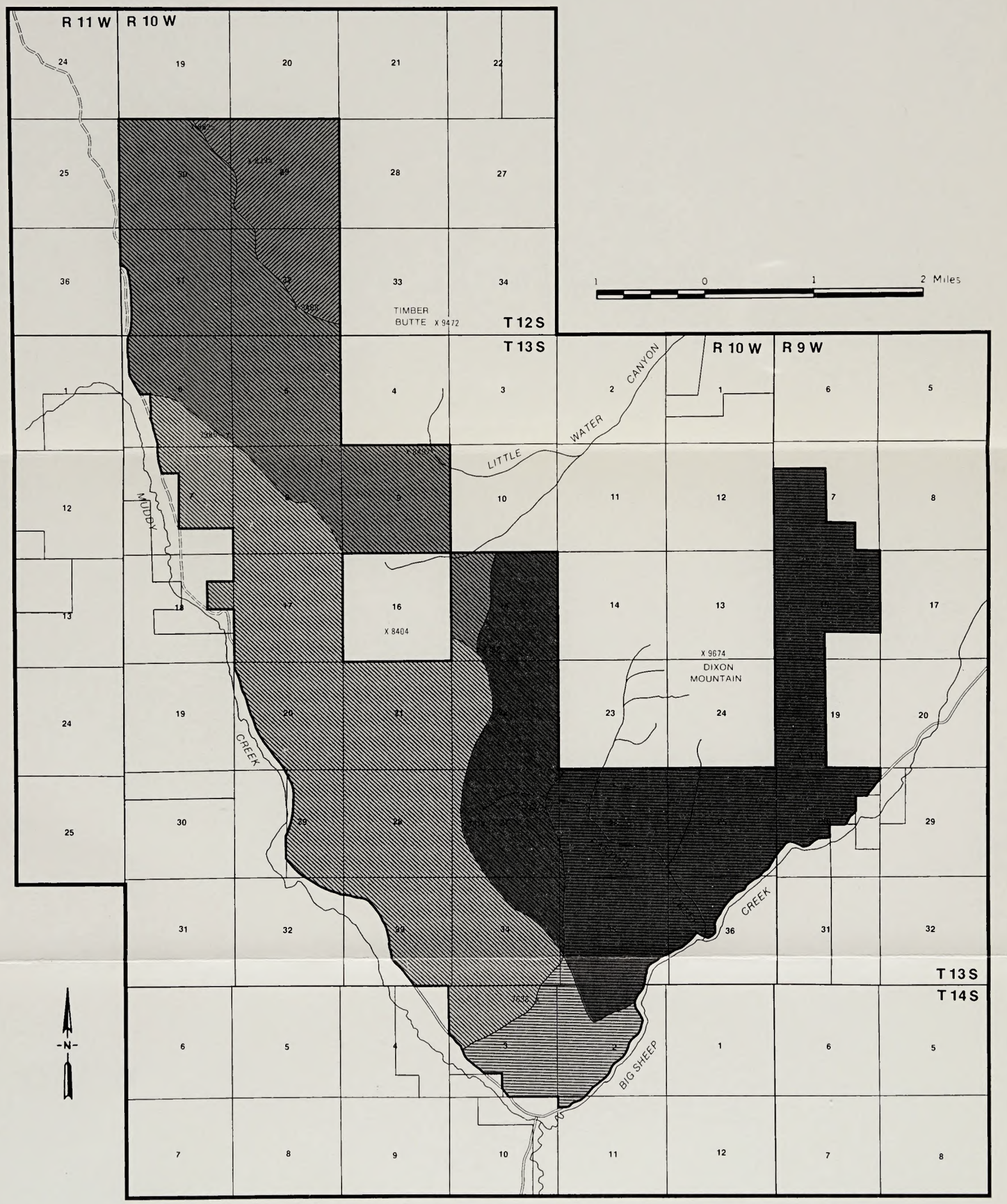
Paved Road
Dirt Road
WSA Boundary

ECOTYPES
(Bailey-Kuchler System)

11 Douglas Fir Forest

49 Sagebrush Steppe

56 Foothills, Prairie



HIDDEN PASTURE
MT-076-022

Paved Road
Dirt Road
WSA Boundary

VISUAL RESOURCES

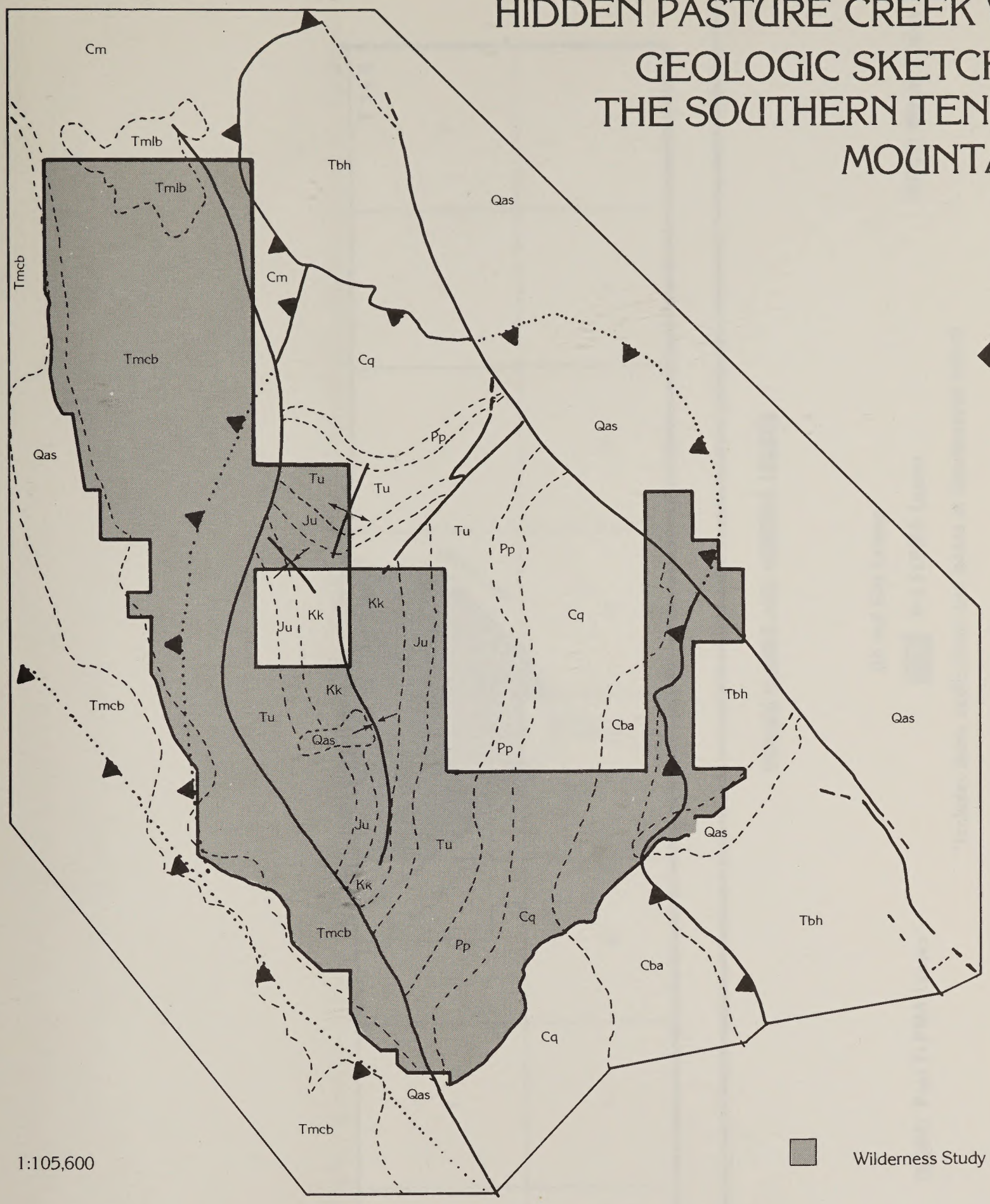
Scenic Quality Classes

- Class A — Outstanding Scenic Values
- Class B — Above Average Scenic Values
- Class C — Average Scenic Values

Visual Resource Management Classes

- Class II — Retention of Landscape Characteristics (no evident changes allowed)
- Class III — Partial Retention of Landscape Characteristics (no dominant changes allowed)
- Class IV — Modification of Landscape Characteristics (dominant changes allowed)

HIDDEN PASTURE CREEK WSA
GEOLOGIC SKETCH OF THE SOUTHERN TENDOY MOUNTAINS



1:105,600

Wilderness Study Area

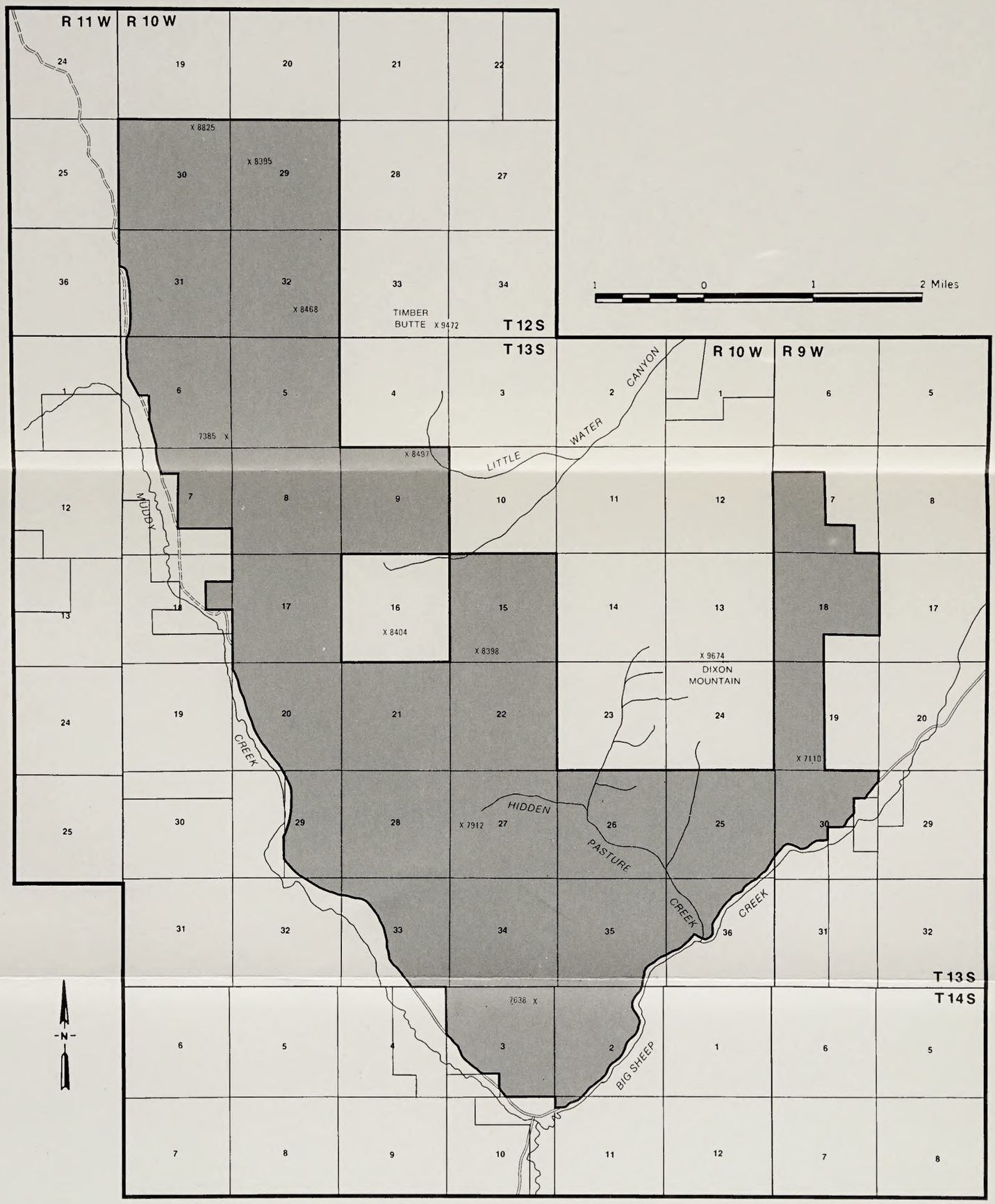
Qas	Quaternary	Ju Jurassic undiff	Cm Madison Group Mission	
Tmlb Medicine Lodge beds		Tu Triassic undiff	pCd Dillon Gneiss	Precambrian
Tmcb Muddy Creek beds	Tertiery	Pp Phosphoric Fm		
Tbh Beaverhead Fm			Carboniferous	
Ka Aspen Fm	Cretaceous	Quadrant Fm		
Kk Kootenai Fm		Cba Big Snowy and Amdsdn Fms		
		Cu Mississippian undiff		

Normal fault

Thrust fault

Anticline

Syncline



HIDDEN PASTURE
MT-076-022

MINING CLAIMS AND MINERAL LEASES

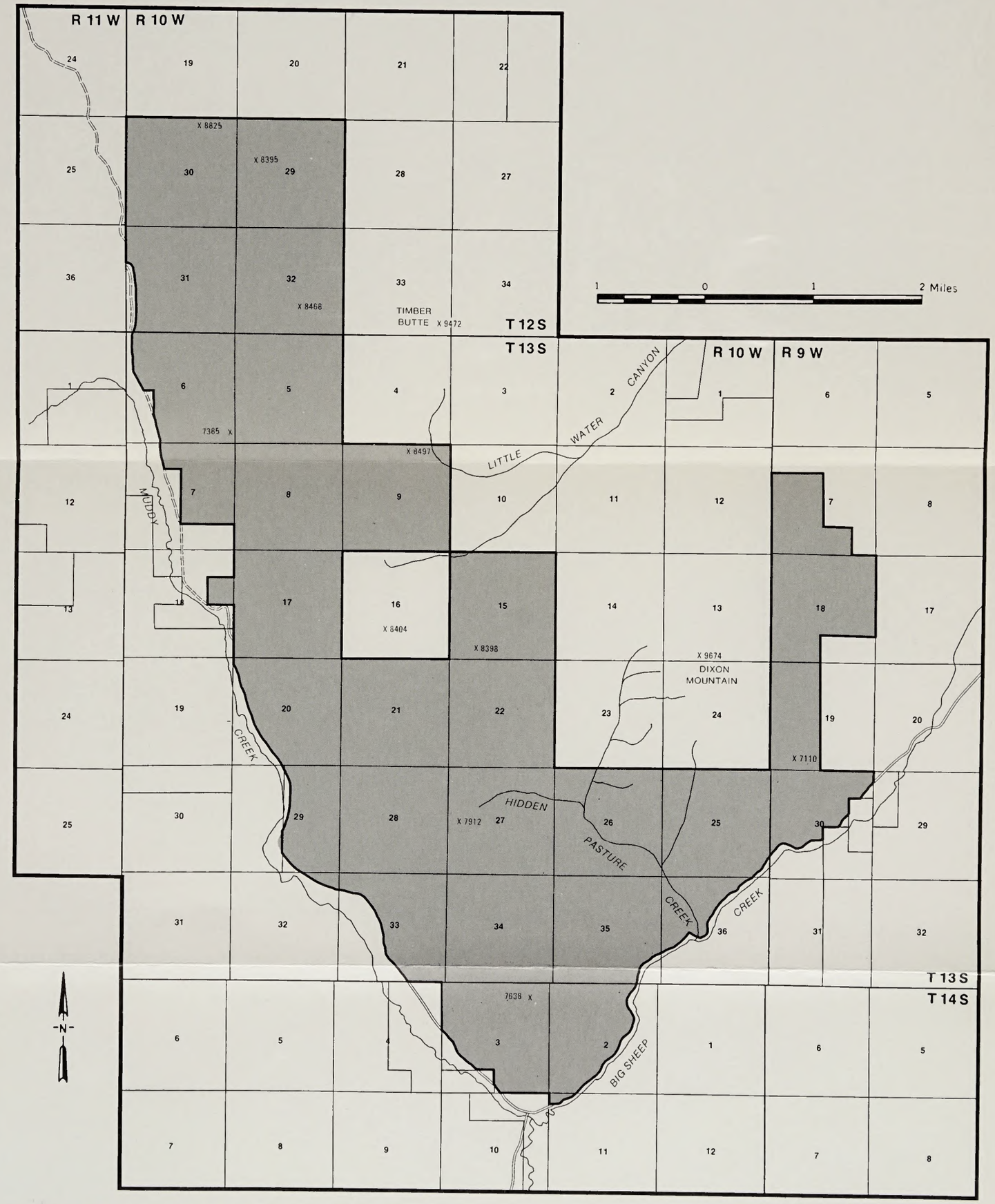
Paved Road
Dirt Road
WSA Boundary

(NONE) Post FLPMA Leases*

Oil and Gas Leases
Pre FLPMA Leases

(NONE) Mining Claims

*Includes lease applications and leases in simultaneous lottery



HIDDEN PASTURE
MT-076-022

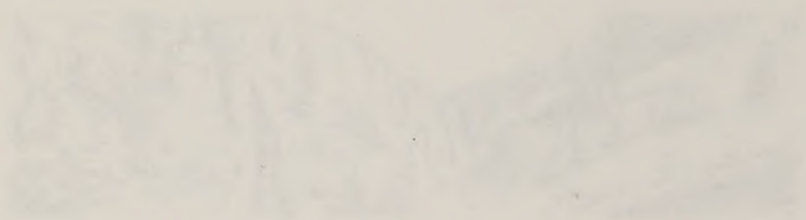
Paved Road
Dirt Road
WSA Boundary

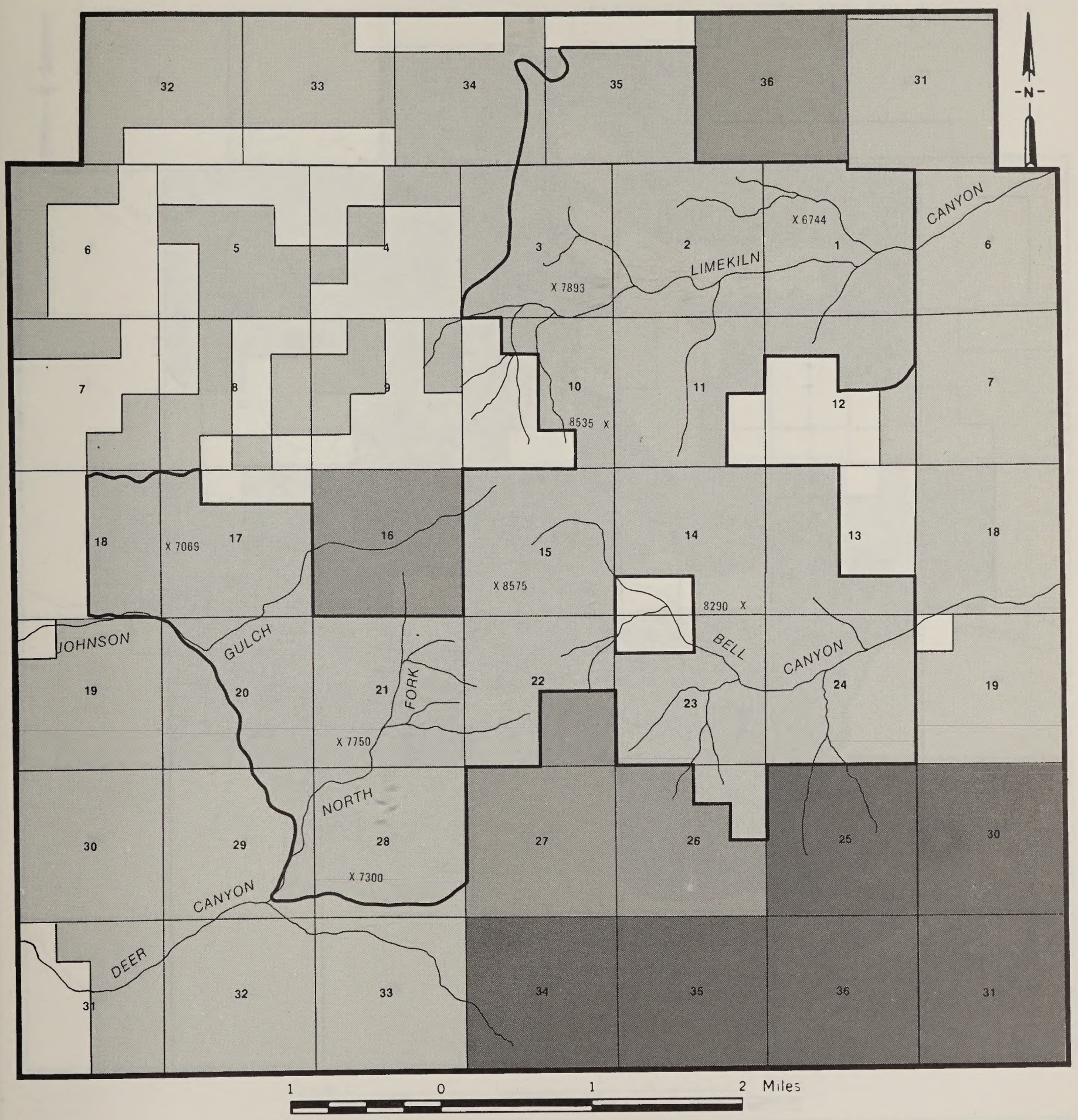
ALTERNATIVES

HP-1 All Wilderness

HP-2 No Wilderness (no portion designated as wilderness)

Bell and Limekiln Canyons WSA
MT-076-026





BELL-LIMEKILN
MT-076-026

WSA Boundary

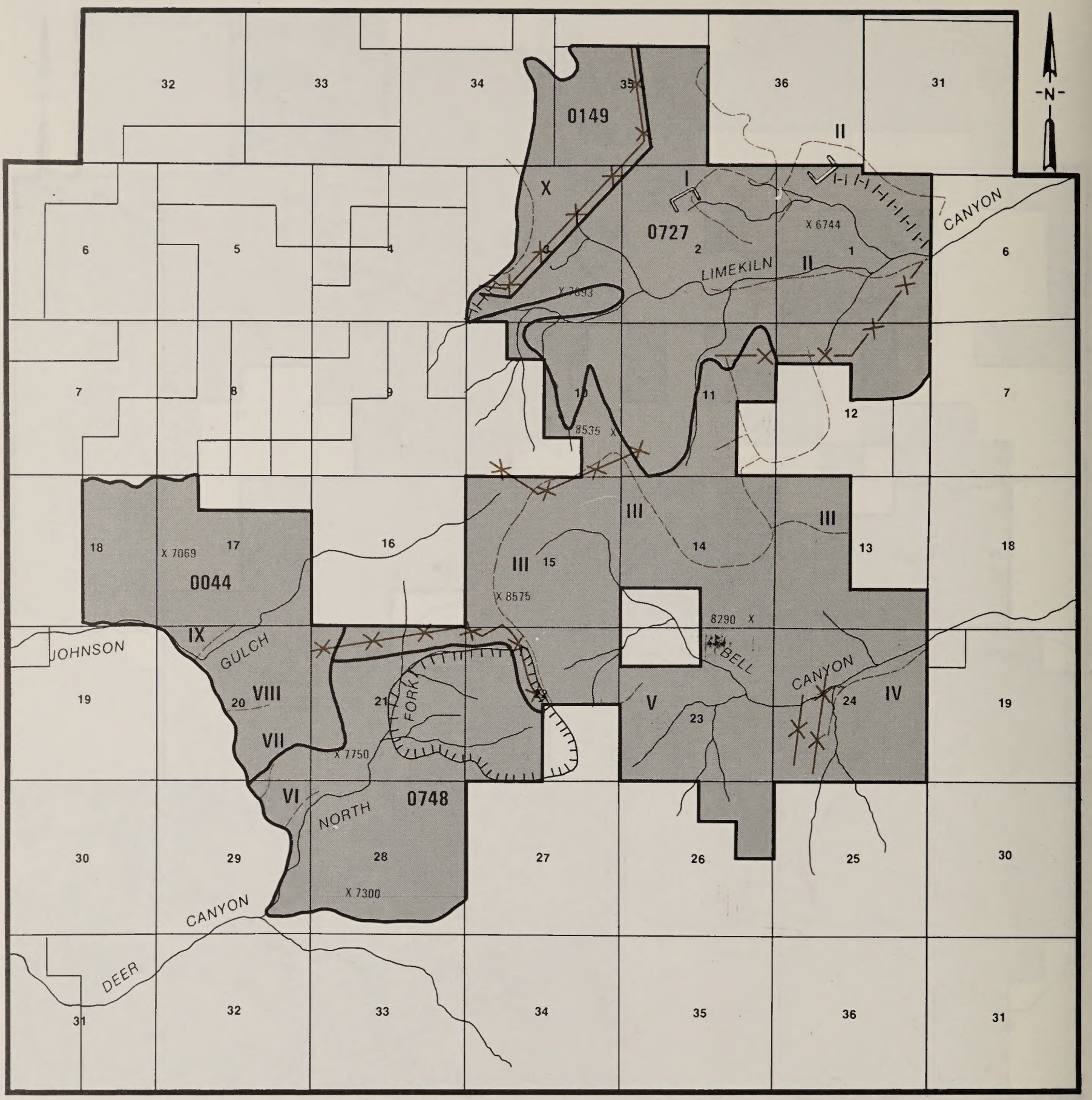
LAND STATUS

Forest Service

State

BLM

Private

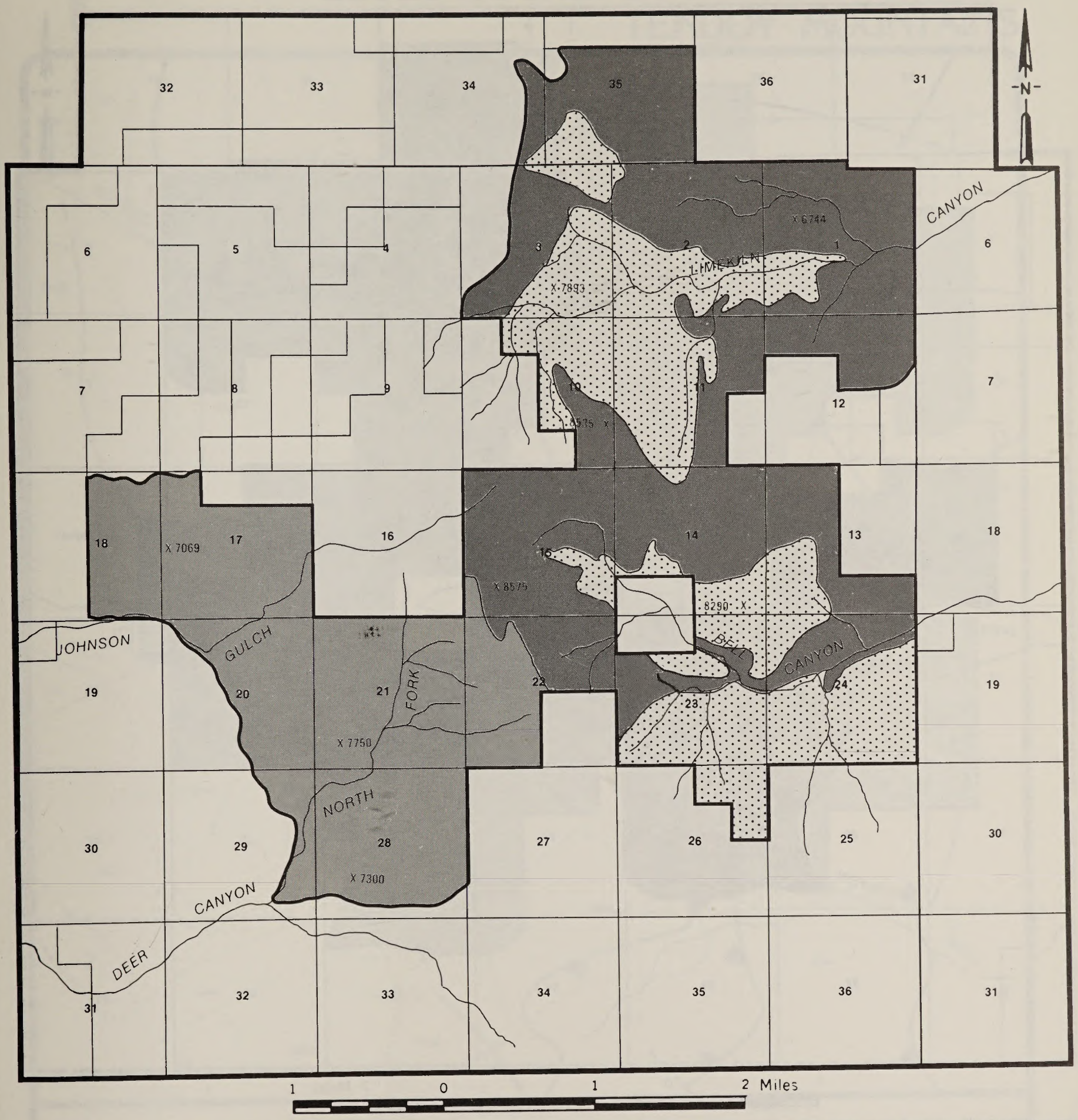


1 0 1 2 Miles

BELL-LIMEKILN
MT-076-026

DEVELOPMENTS AND ALLOTMENTS

- Proposed Allotment Management Plan
- WSA Boundary
- Fenceline
- Proposed Fenceline
- Vehicle Way
- Proposed Burn
- Pipeline
- Proposed Pipeline



BELL-LIMEKILN
MT-076-026

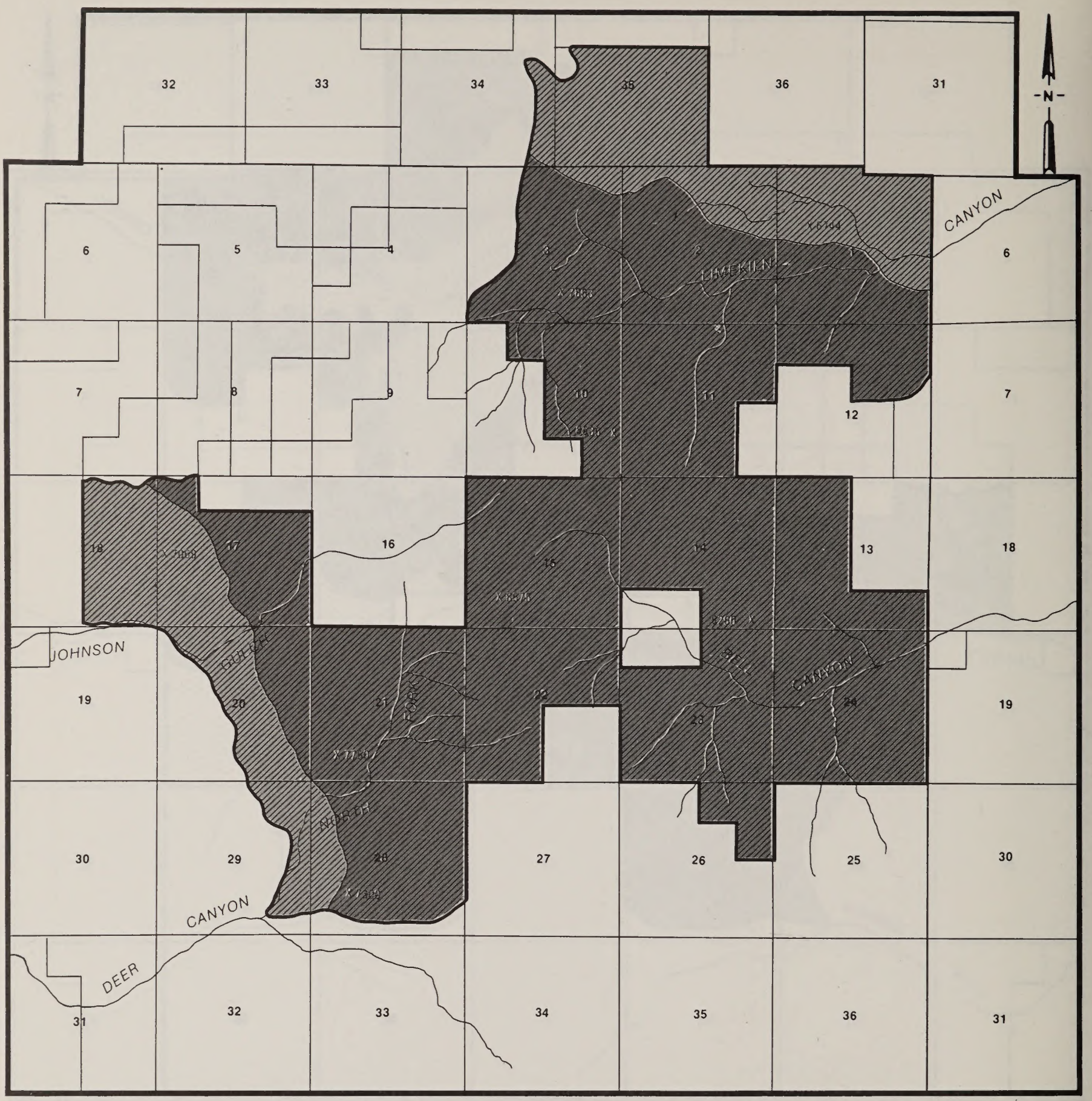
ECOTYPES
(Bailey-Kuchler System)

WSA Boundary

11 Douglas Fir Forest

49 Sagebrush Steppe

56 Foothills, Prairie



BELL-LIMEKILN
MT-076-026

VISUAL RESOURCES

Scenic Quality Classes

Class A — Outstanding Scenic Values

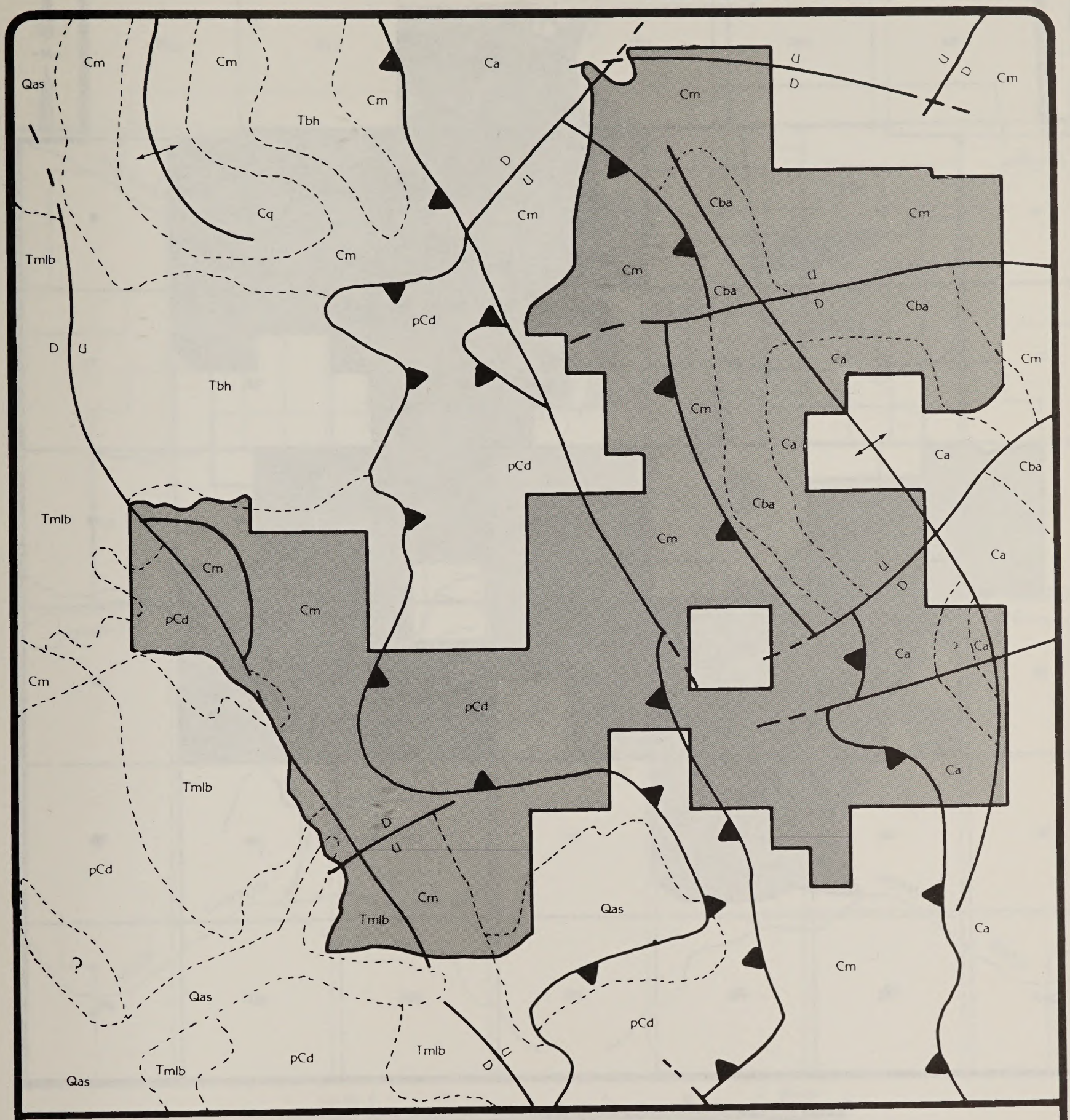
Class B — Above Average Scenic Values

WSA Boundary

Visual Resource Management Classes

Class III — Partial Retention of Landscape Characteristics (no dominant changes allowed)

BELL-LIMEKILN WSA
GEOLOGIC SKETCH OF THE NORTHERN TENDOY MOUNTAINS



Qas	Quaternary	Ju Jurassic undiff		Cm Madison Group-Mission	Carboniferous
Tmlb Medicine Lodge beds		Tu Triassic undiff		pC d Dillon Gneiss	Precambrian
Tmcb Muddy Creek beds	Tertiery	Pp Phosphona Fm			
Tbh Beaverhead Fm		Ca Quadrant Fm	Carboniferous		
Ka Aspen Fm	Cretaceous	Cba Big Snowy and Amsden Fms			
Kk Kootenai Fm		Cu Mississipian undiff			

Wilderness Study Area

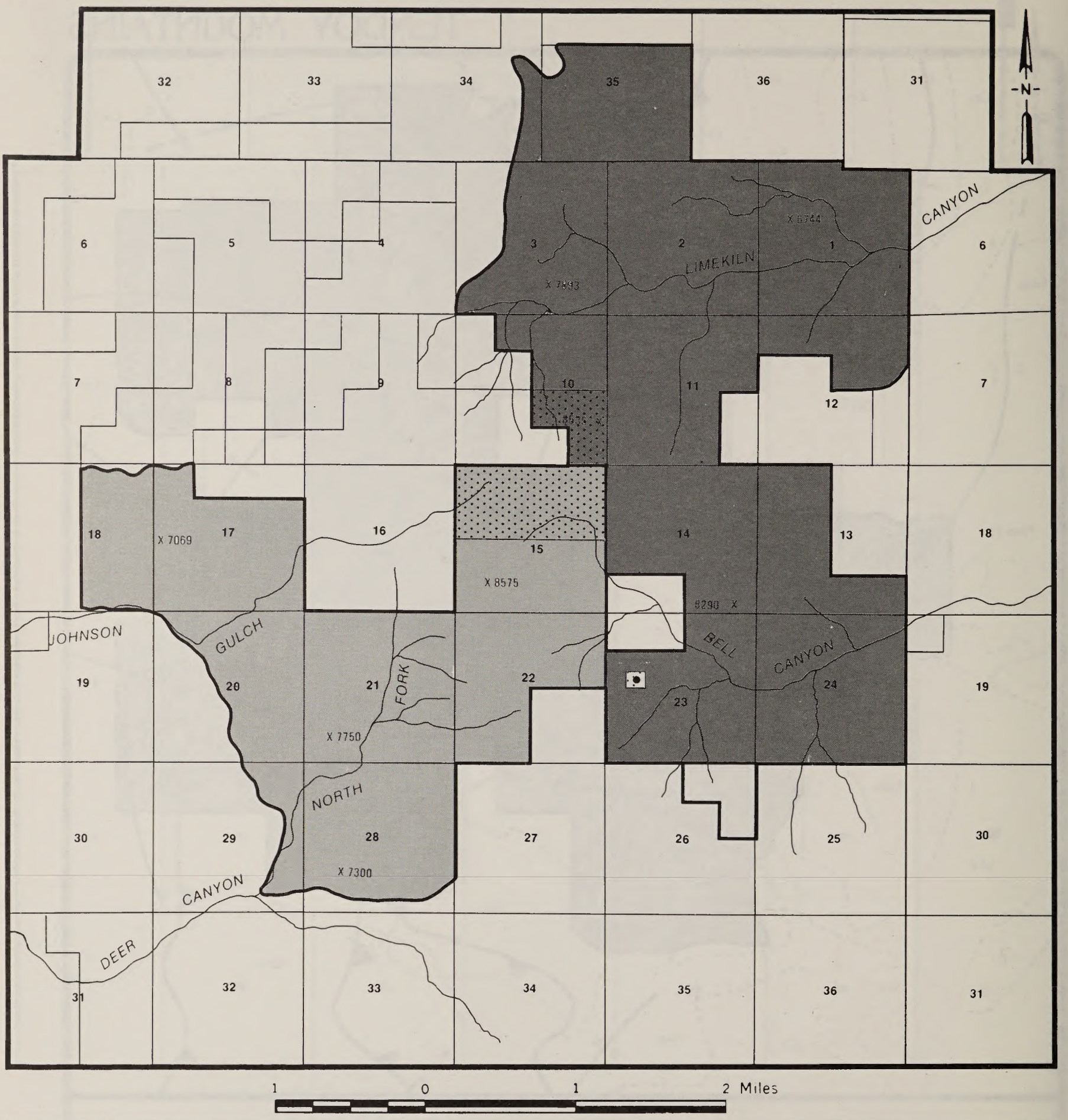
Normal fault

Thrust fault

Anticline

Syncline

1:63,360



BELL-LIMEKILN
MT-076-026

MINING CLAIMS AND MINERAL LEASES

WSA Boundary

Oil and Gas Leases

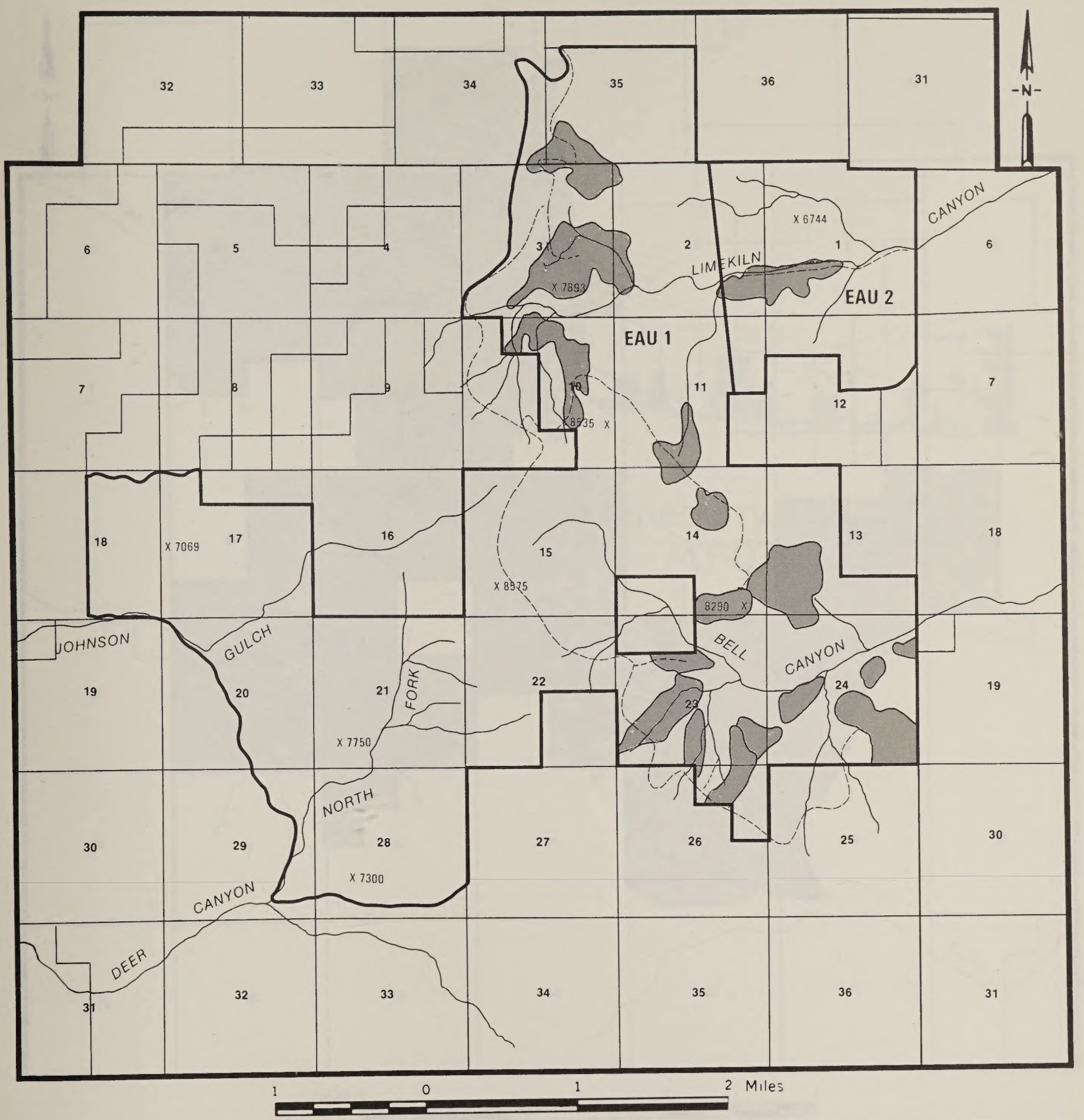
Post FLPMA Leases*

Pre FLPMA Leases

Mining Claims

Conoco ADP

*Includes lease applications and leases in simultaneous lottery



BELL-LIMEKILN
MT-076-026

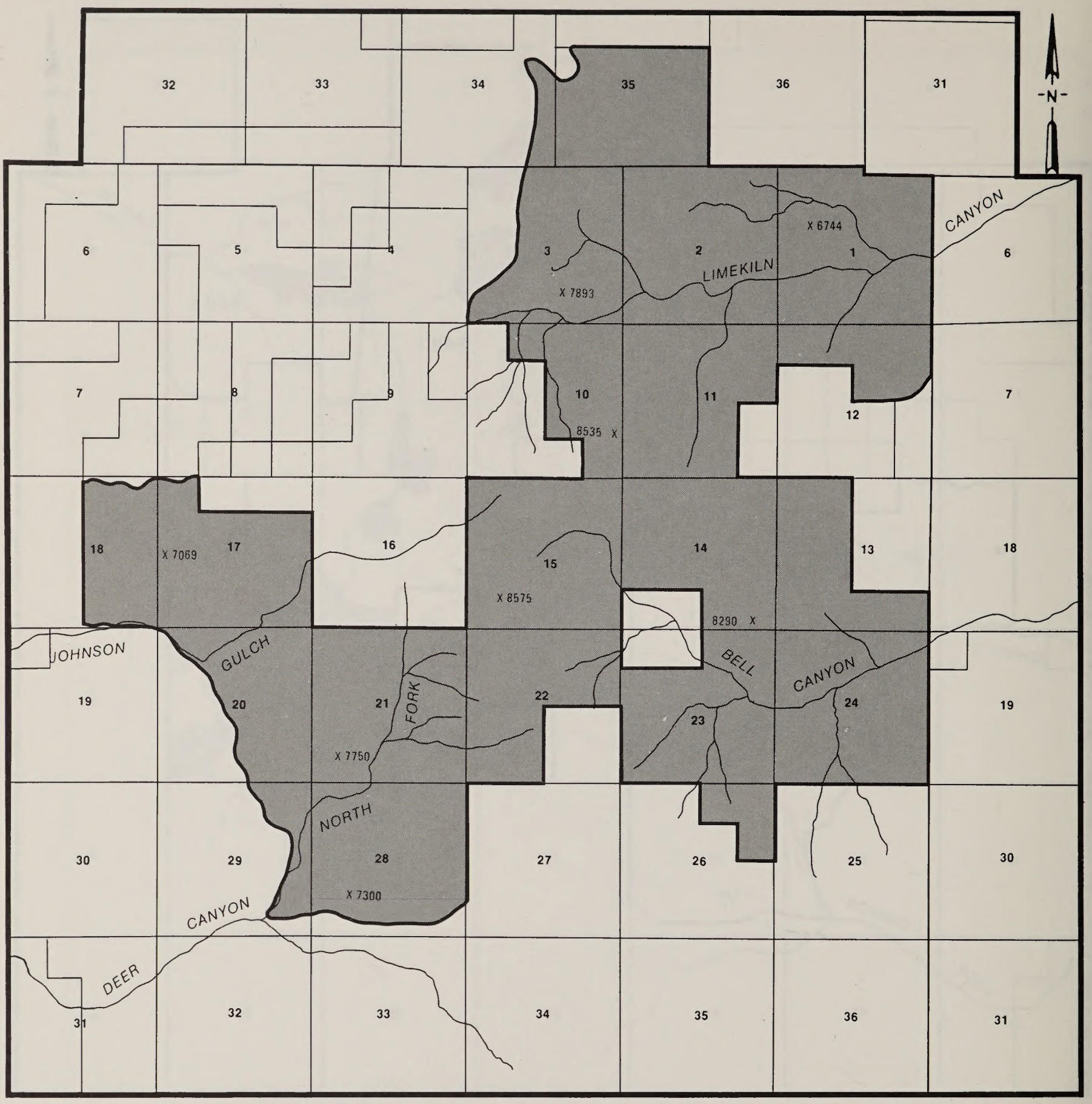
TIMBER MANAGEMENT

EAU Economic Analysis Unit

Commercial Timber

WSA Boundary

Proposed Road



BELL-LIMEKILN
MT-076-026

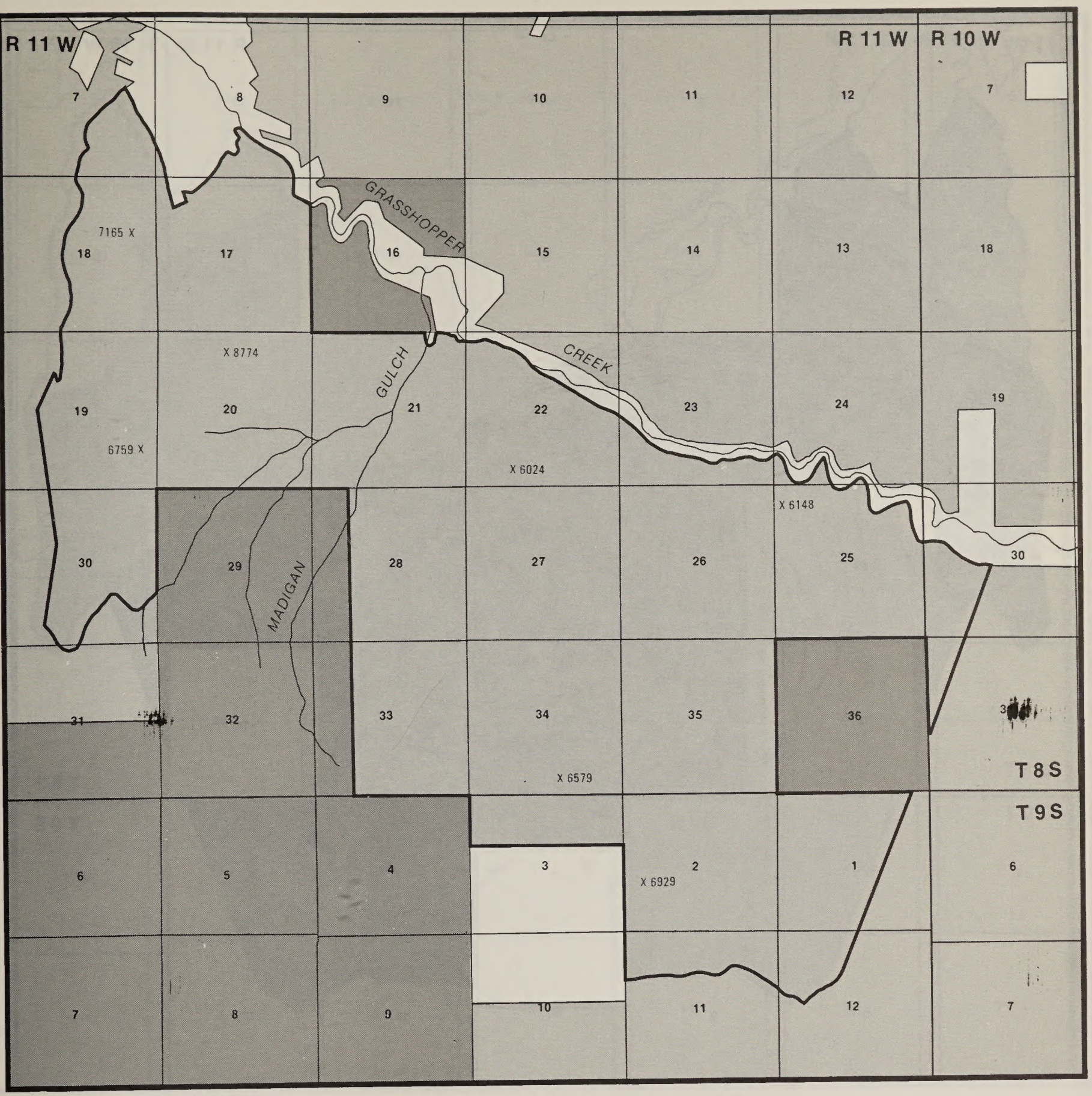
ALTERNATIVES

WSA Boundary

BL-1 All Wilderness

BL-2 No Wilderness (no portion designated as wilderness)

Henneberry Ridge WSA
MT-076-028



1 0 1 2 3 Miles

HENNEBERRY RIDGE
MT-076-028

LAND STATUS

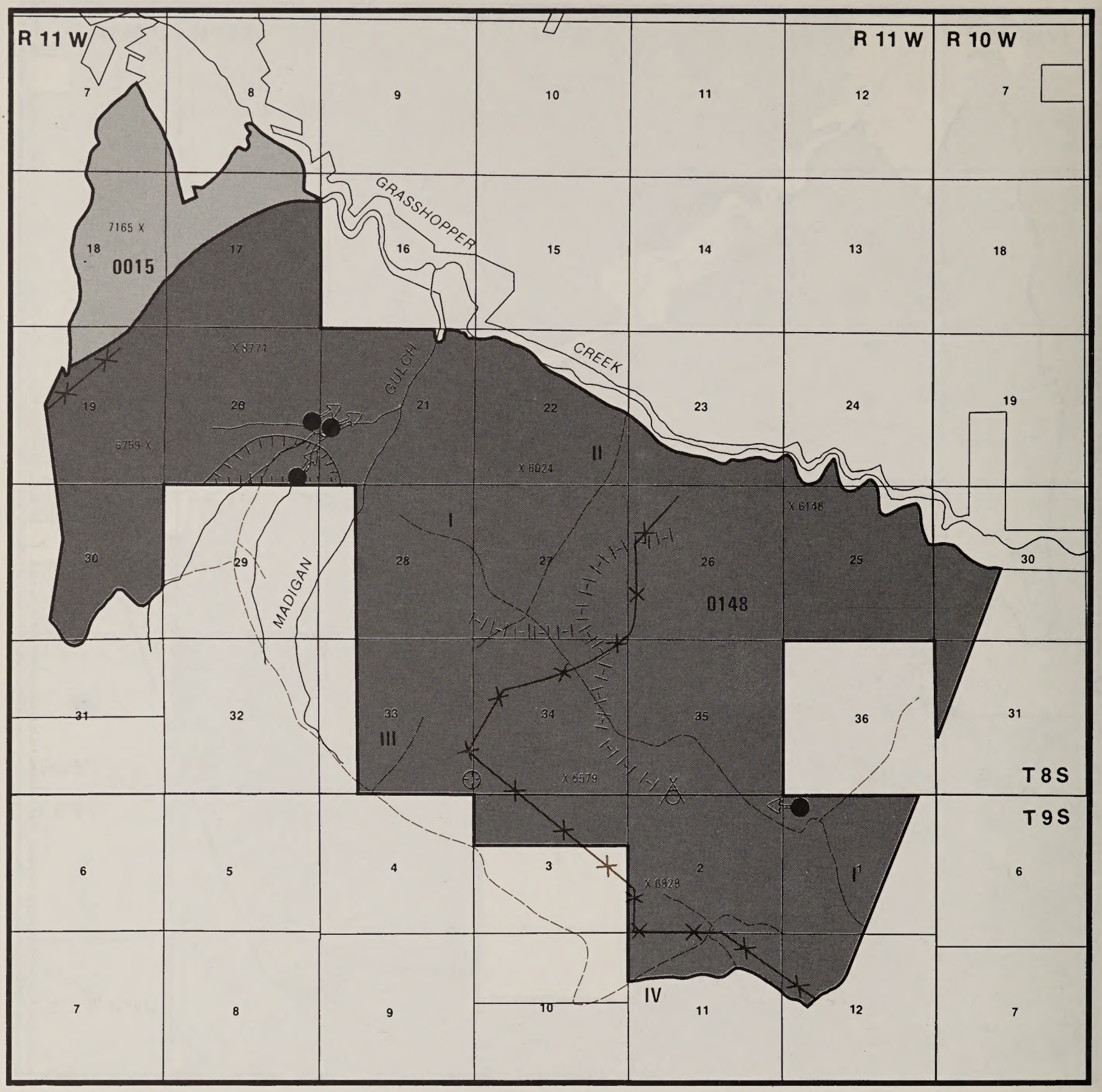
WSA Boundary

-N-

State

BLM

Private



1 0 1 2 3 Miles

HENNEBERRY RIDGE
MT-076-028

DEVELOPMENTS AND ALLOTMENTS

WSA Boundary

-N-

Allotment Management Plan

Proposed Allotment Management Plan

Fenceline

Proposed Fenceline

Proposed Burn

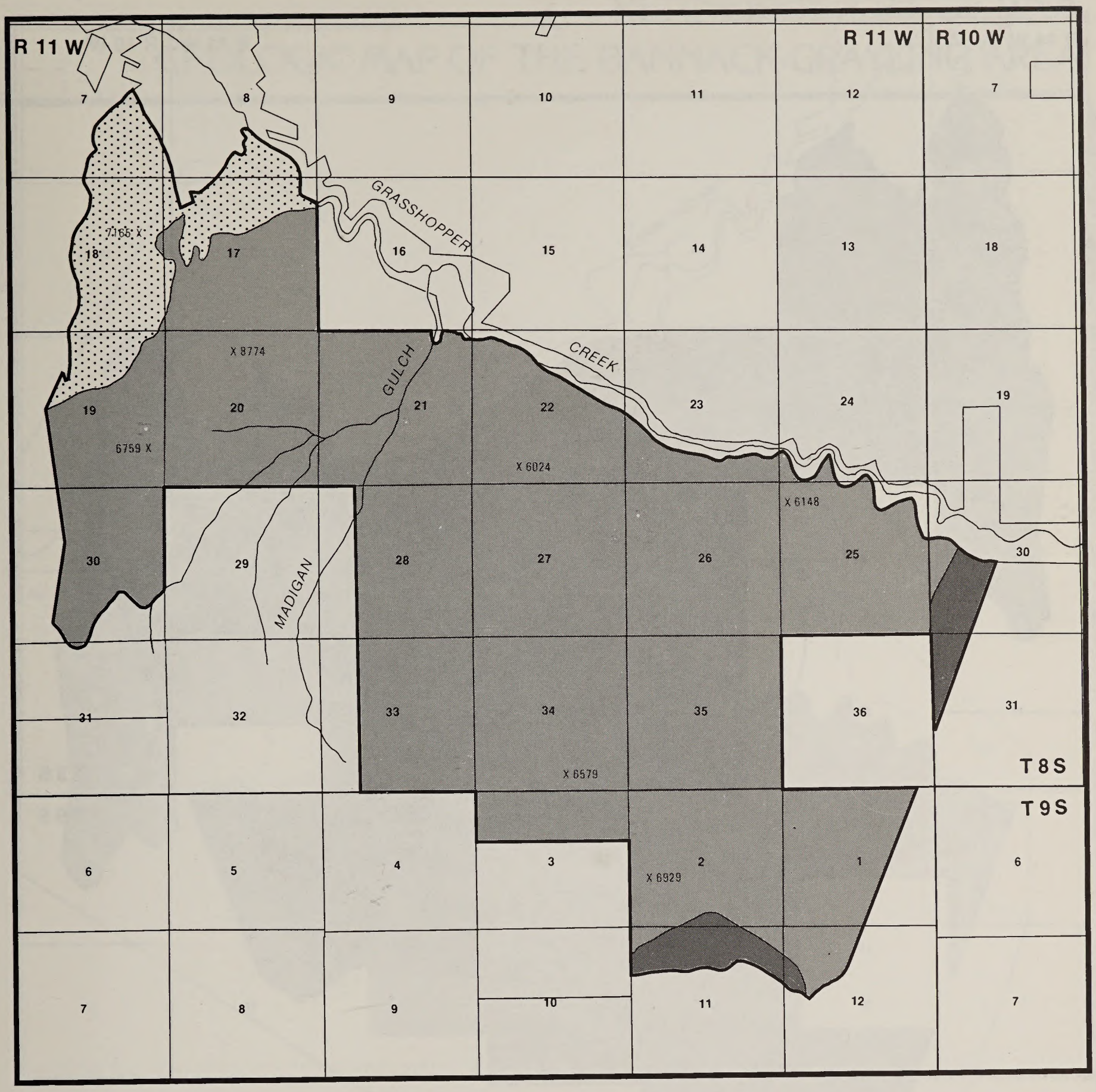
Developed Spring

Vehicle Way

Proposed Pipeline

Reservoir

Proposed Well and Windmill



HENNEBERRY RIDGE
MT-076-028

ECOTYPES
(Bailey—Kuchler System)

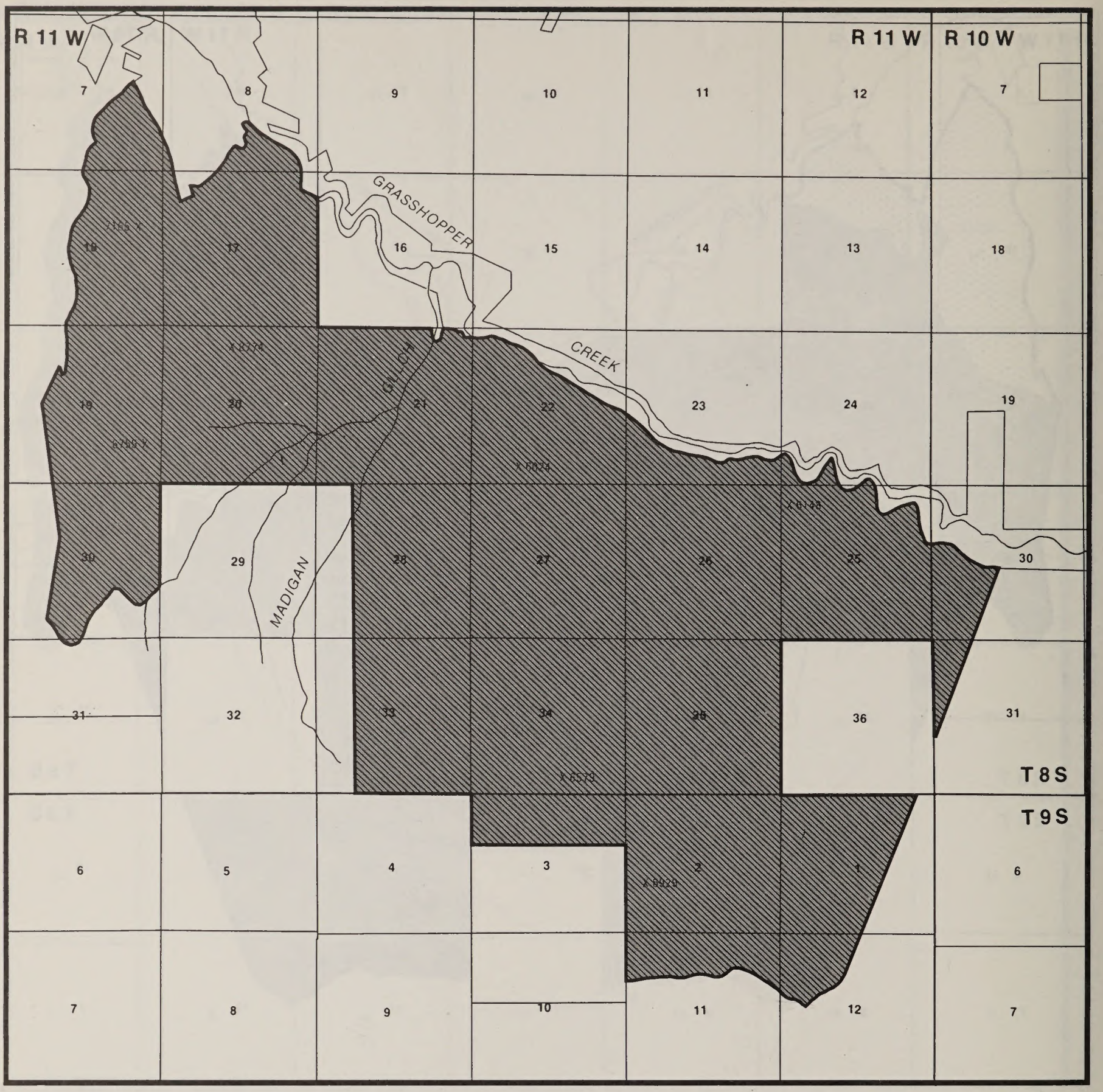
WSA Boundary

-N-

11 Douglas Fir Forest

49 Sagebrush Steppe

56 Foothills, Prairie



1 0 1 2 3 Miles

HENNEBERRY RIDGE
MT-076-028

VISUAL RESOURCES

WSA Boundary

N

Scenic Quality Class

Class B — Above Average Scenic Values

Visual Resource Management Class

Class IV — Modification of Landscape Characteristics (dominant changes allowed)

HENNEBERRY RIDGE WSA
GEOLOGIC MAP OF THE BANNACK-GRAYLING AREA

Wilderness Study Area

Ta Andesitic Volcanics

Tb Basaltic Volcanics

Pal Paleozoic Sedimentary Rocks

Tgd Granodiorite

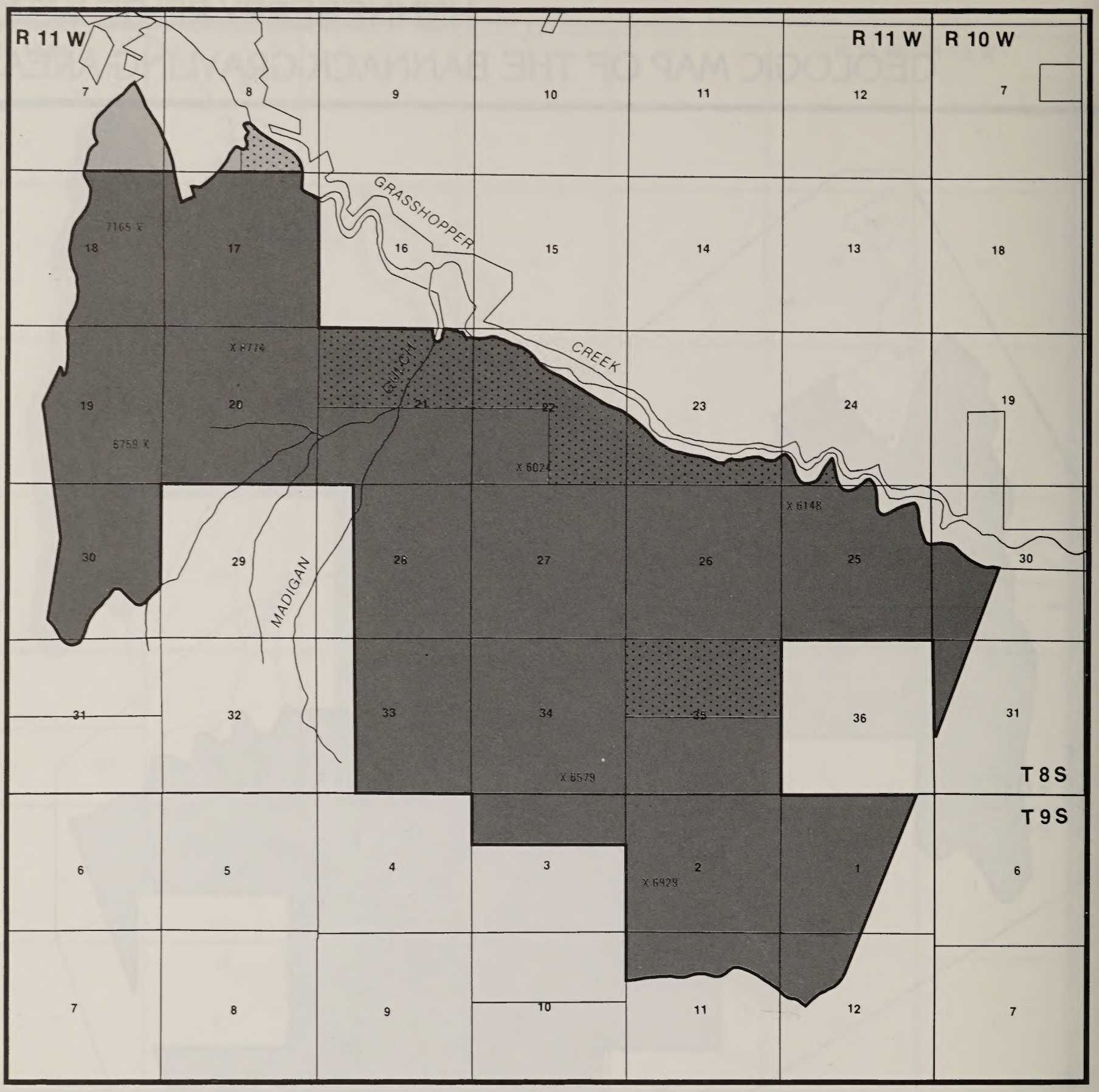
U / D Normal fault

Thrust fault

Syncline

Anticline

1:63360



1 0 1 2 3 Miles

HENNEBERRY RIDGE
MT-076-028

——WSA Boundary

-N-

MINING CLAIMS AND MINERAL LEASES

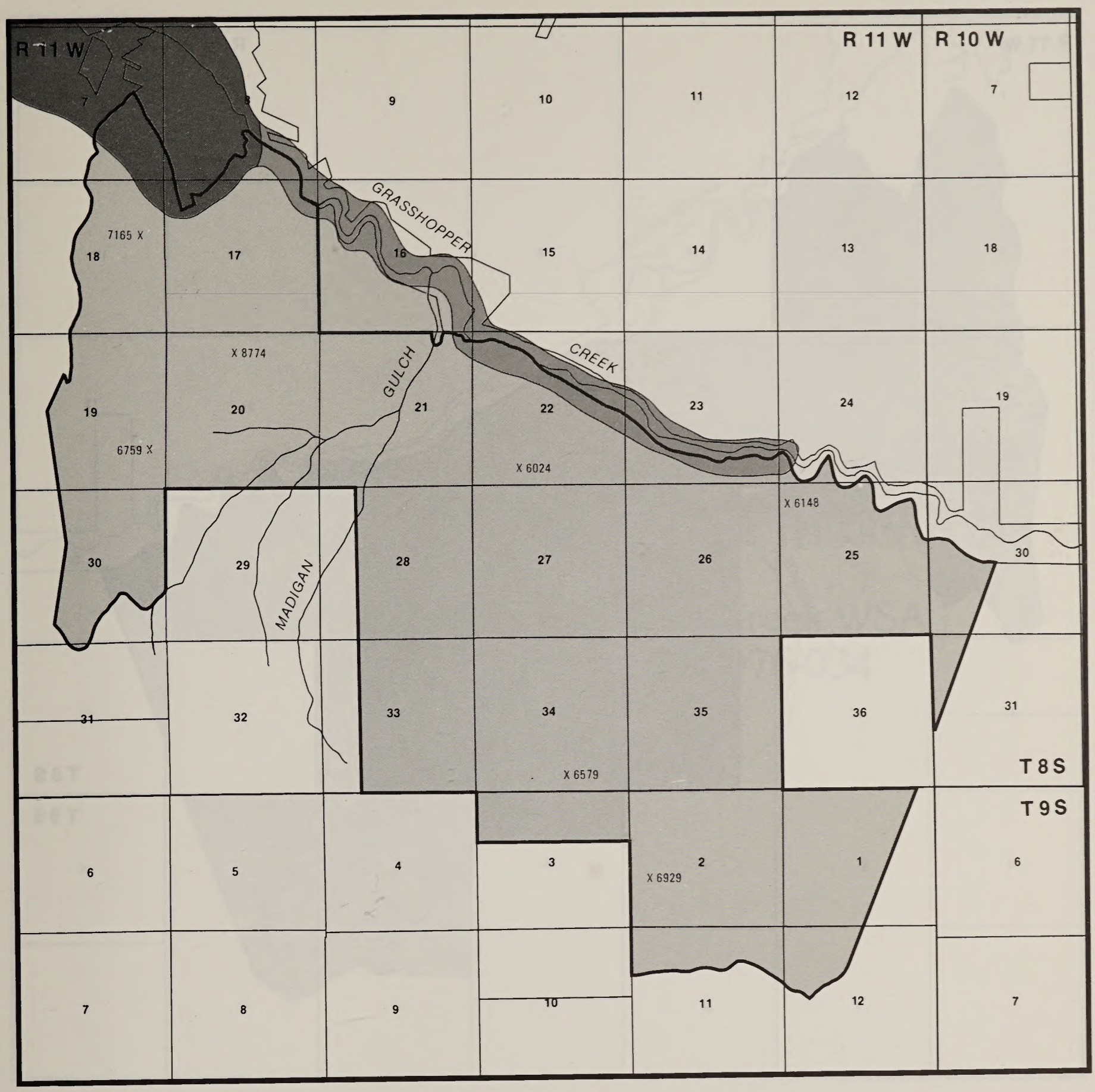
Oil and Gas Leases

Post FLPMA Leases*

Pre FLPMA Leases

Mining Claims

*Includes lease applications and leases in simultaneous lottery



HENNEBERRY RIDGE
MT-076-028

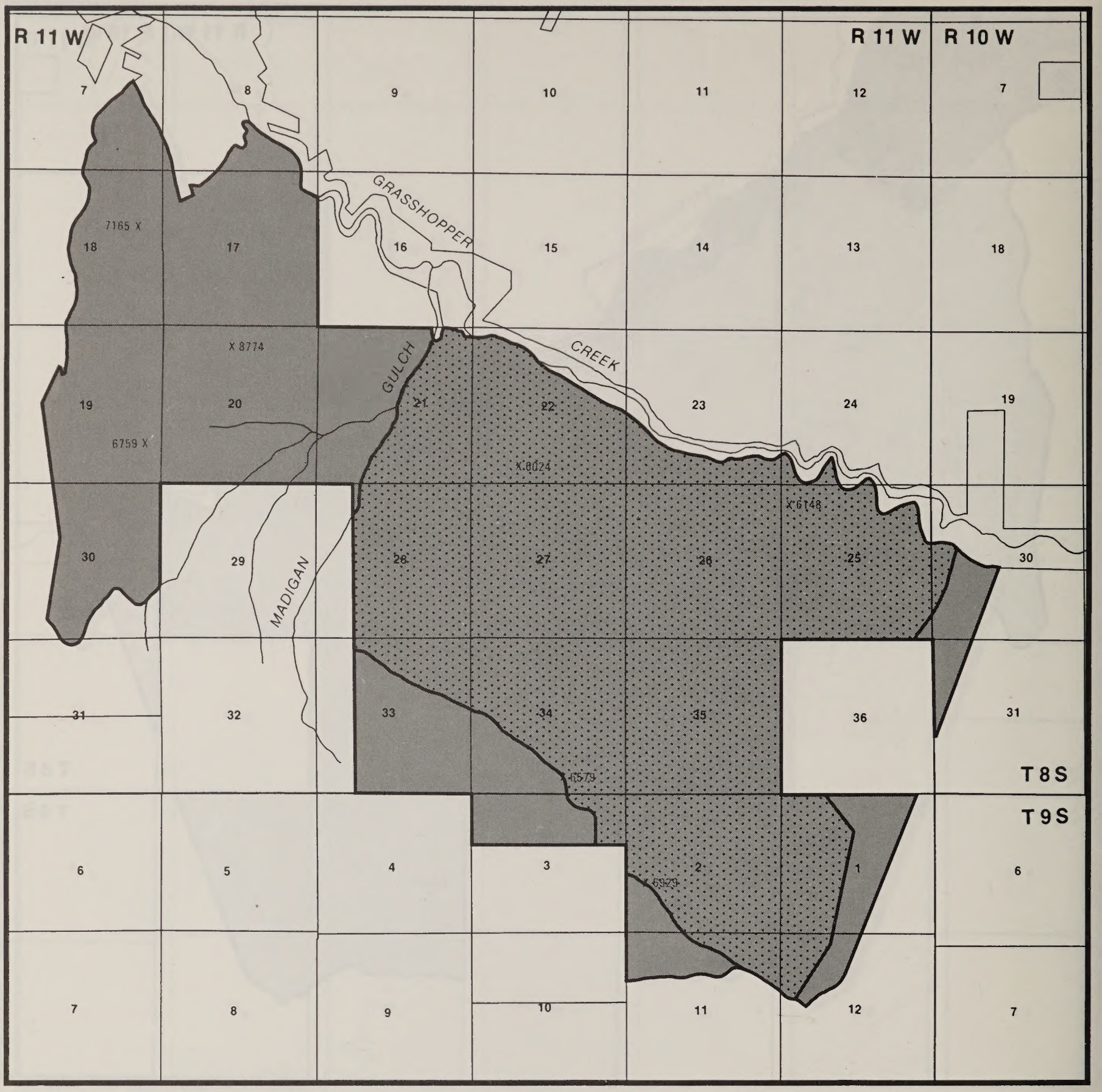
WSA Boundary

-N-

MINERAL POTENTIAL

Geology

- High Potential for Au
- High Potential for Placer Au
- Tertiary basalts and Paleozoic sediments – low potential



HENNEBERRY RIDGE
MT-076-028

WSA Boundary

-N-

ALTERNATIVES

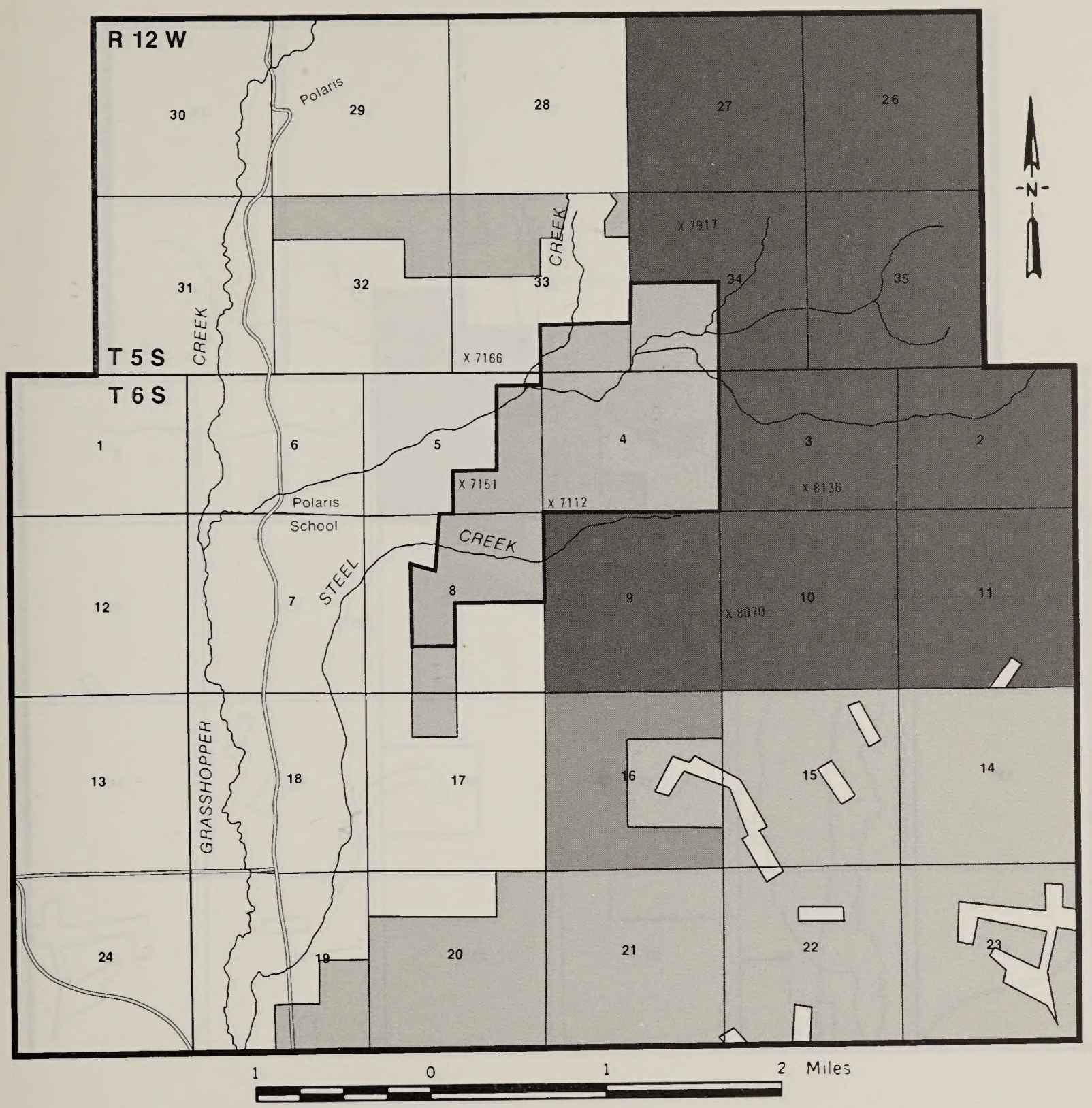
H-1 All Wilderness

H-2 No Wilderness (no portion designated as wilderness)

H-3 Partial Wilderness

Alternative Boundary

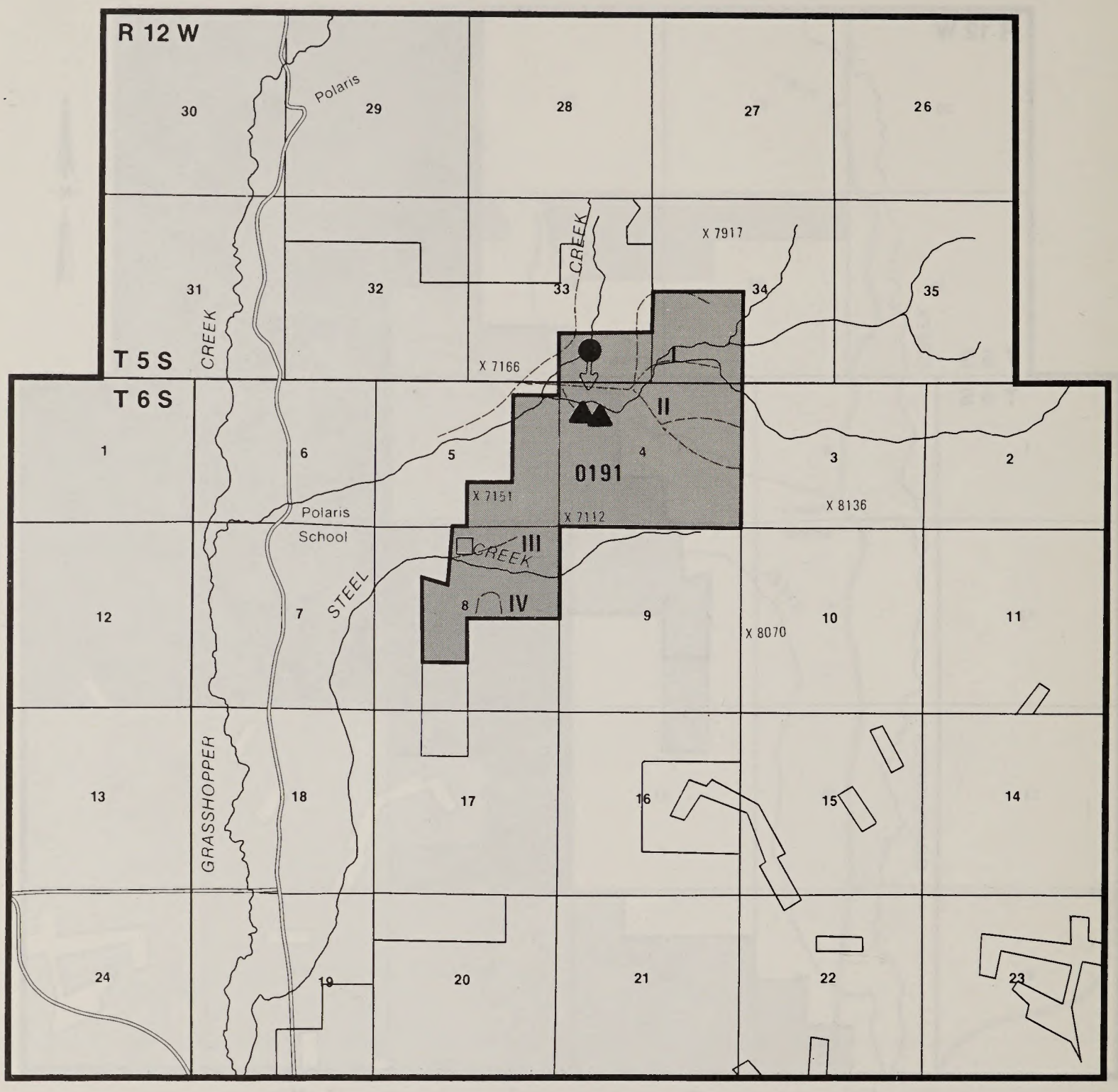
Farlin Creek WSA
MT-076-034



FARLIN CREEK
MT-076-034

LAND STATUS

Paved Road
WSA Boundary
Forest Service
State
BLM
Private



FARLIN CREEK
MT-076-034

DEVELOPMENTS AND ALLOTMENTS

Custodial

Building

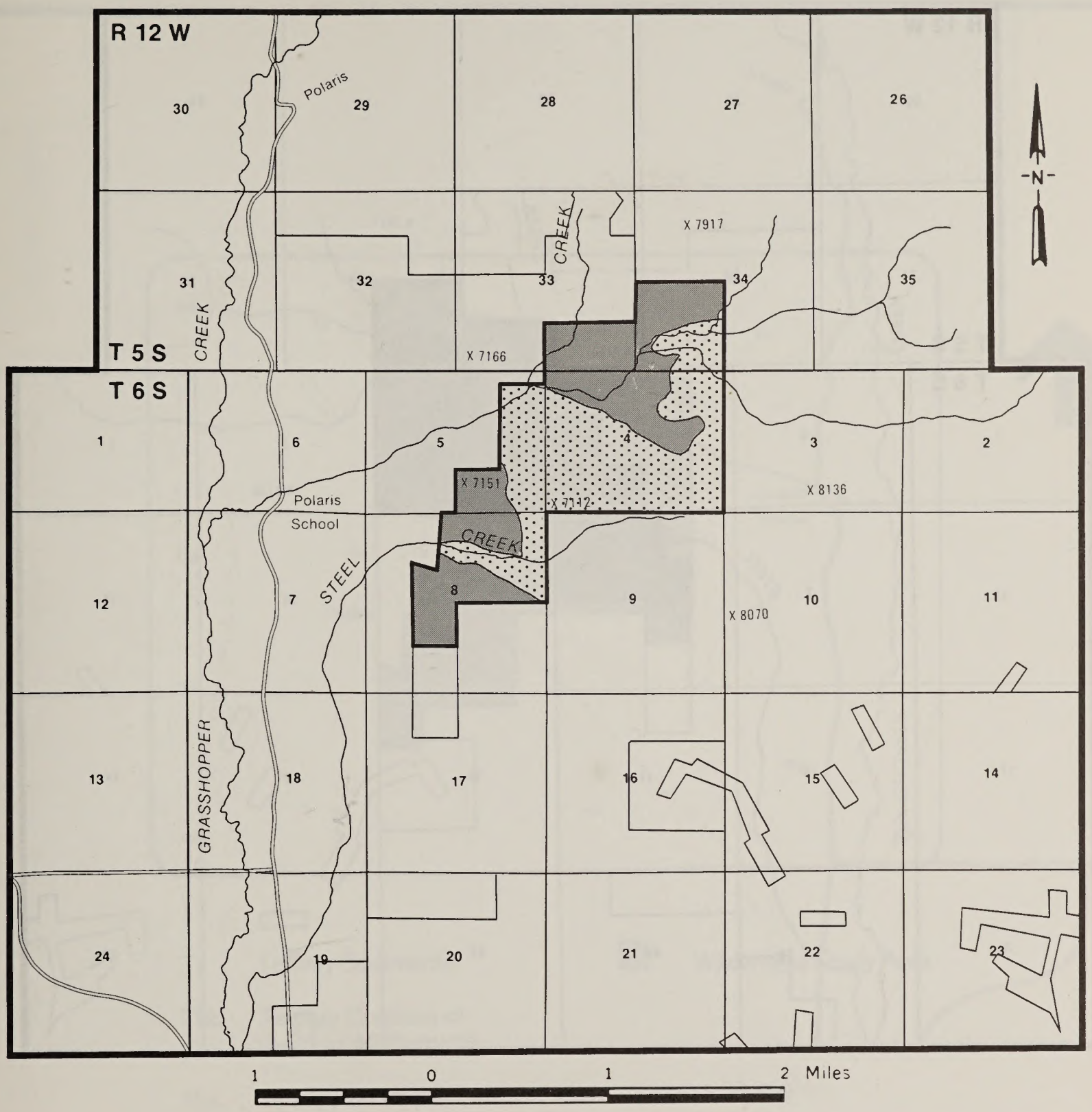
Paved Road

Vehicle Way

Developed Spring

WSA Boundary

Old Logging Evidence



FARLIN CREEK
MT-076-034

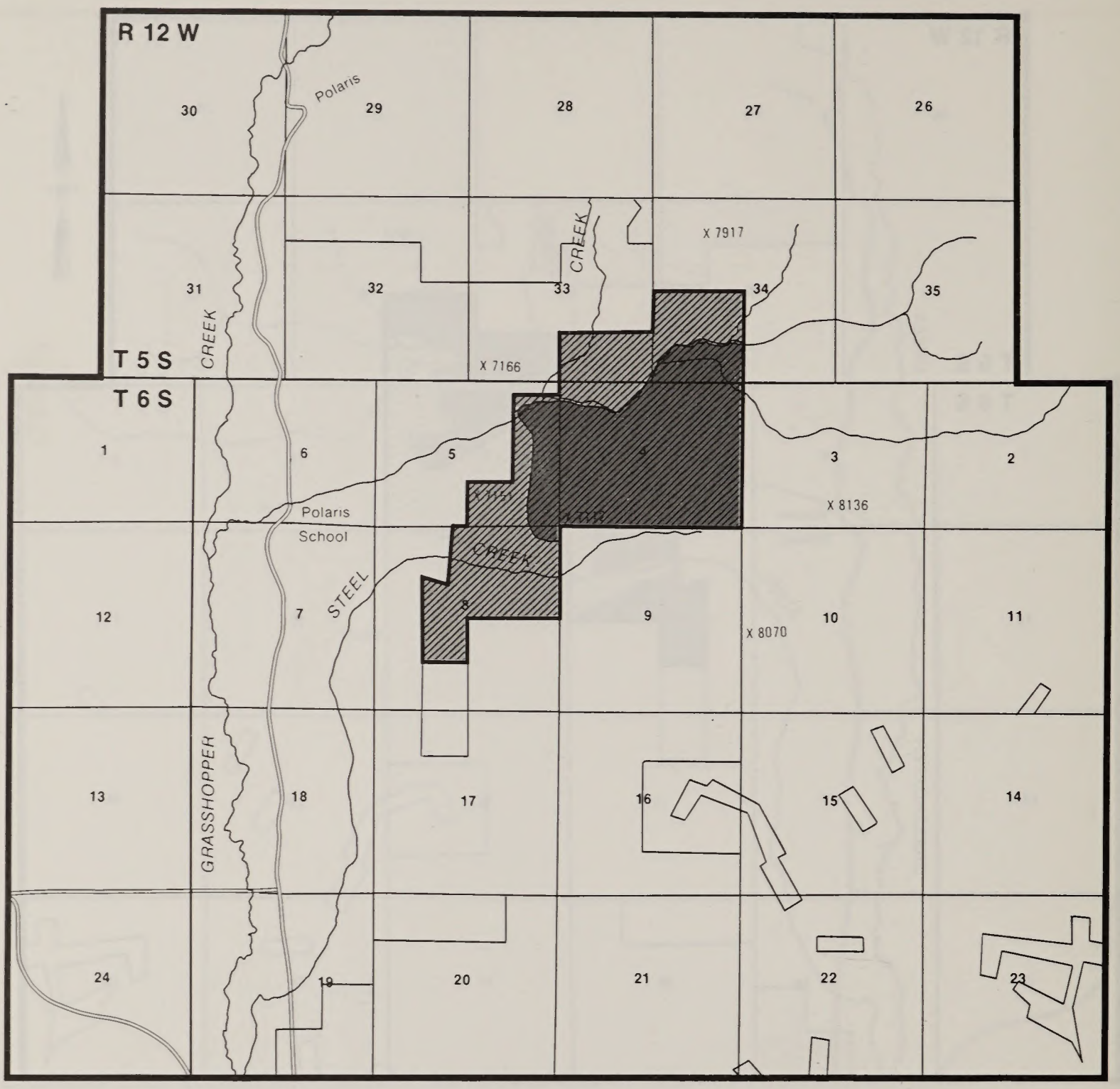
ECOTYPES
(Bailey-Kuchler System)

Paved Road

WSA Boundary

11 Douglas Fir Forest

49 Sagebrush Steppe



FARLIN CREEK
MT-076-034

Paved Road

WSA Boundary

VISUAL RESOURCES

Scenic Quality Classes

Class A — Outstanding Scenic Values

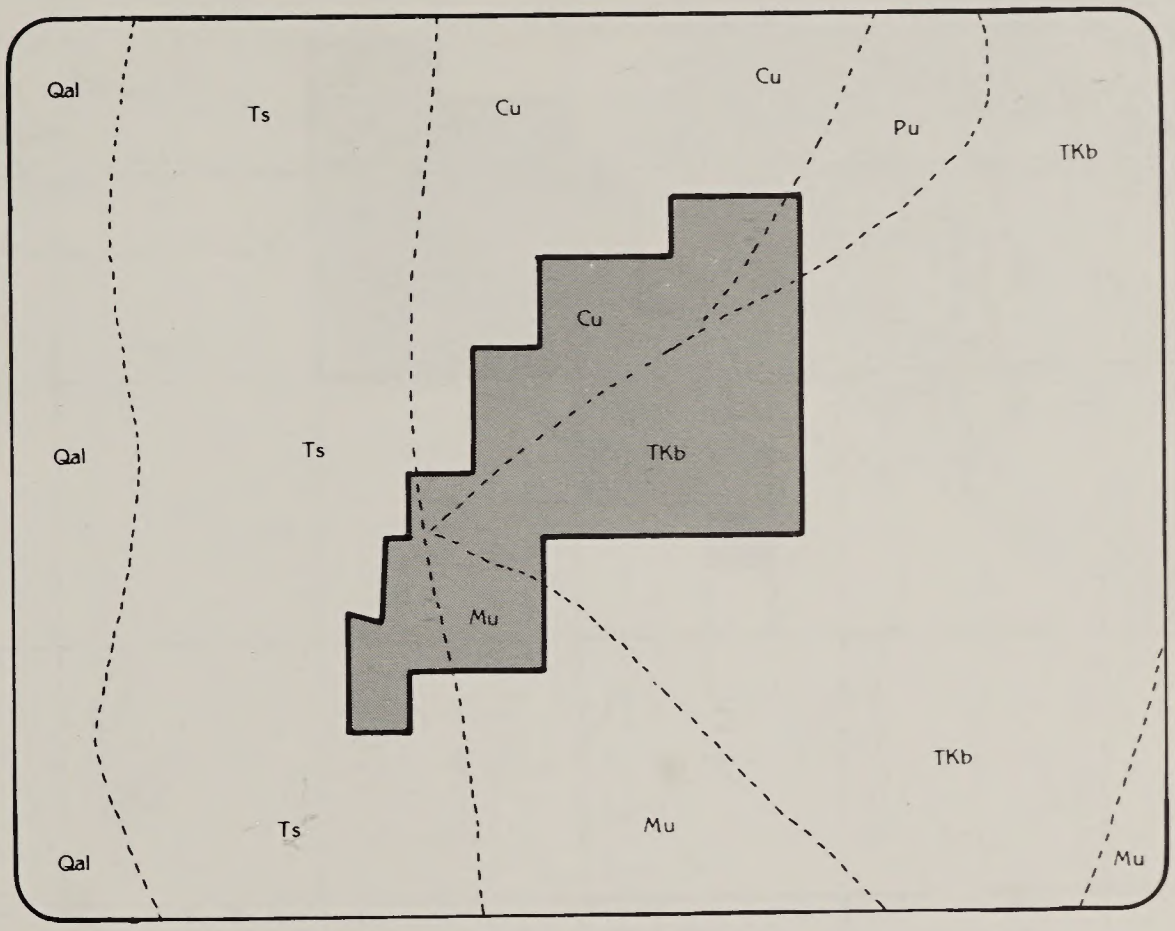
Class B — Above Average Scenic Values

Visual Resource Management Classes

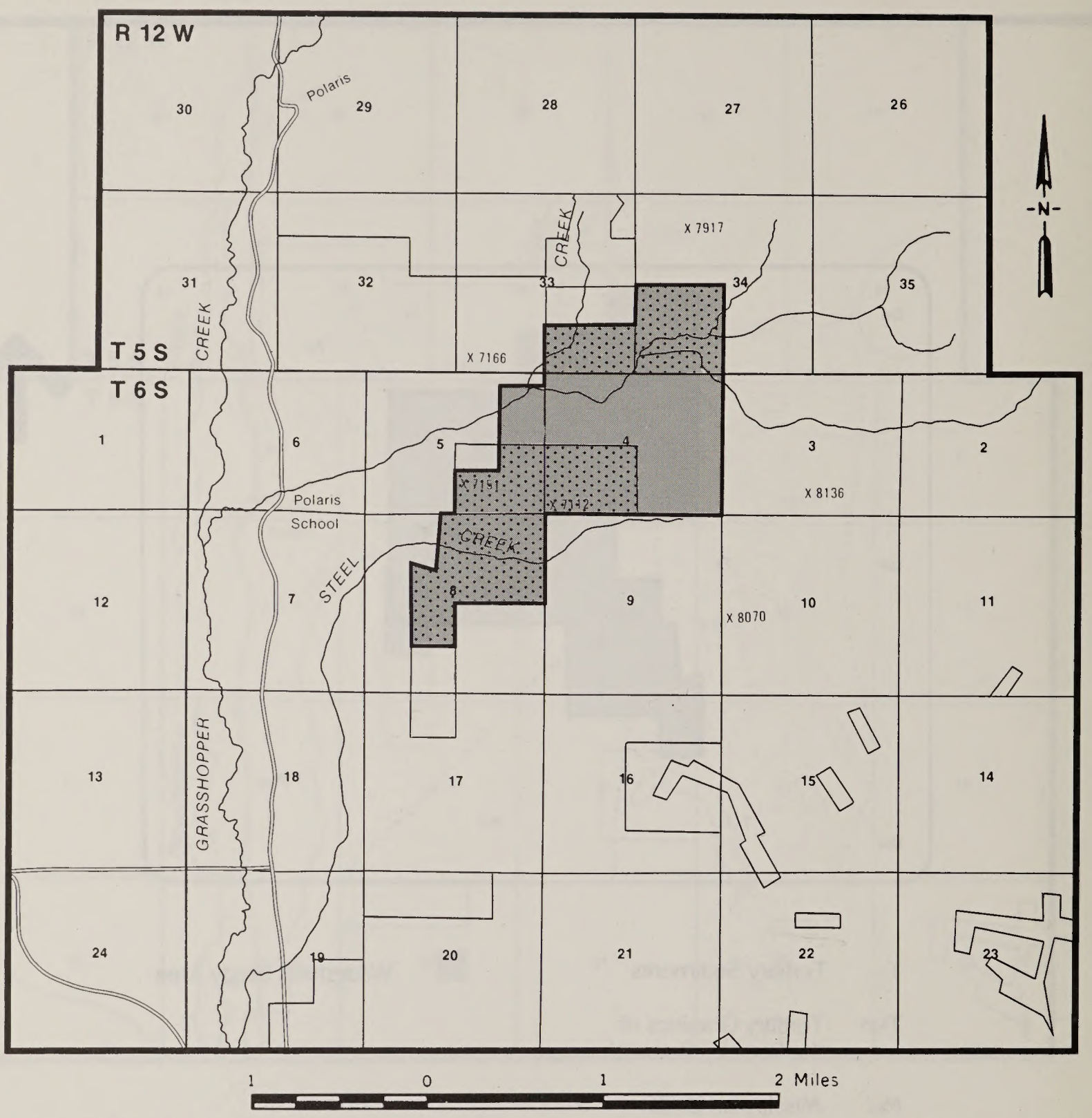
Class III — Partial Retention of Landscape Characteristics (no dominant changes allowed)

FARLIN CREEK WSA

GENERAL GEOLOGIC MAP OF THE POLARIS AREA



Ts	Tertiary Sediments		Wilderness Study Area
Tkb	Tertiary Granitics of the Boulder Batholith		
Mu	Missippian Undif.		1:63,360
Pu	Permian Undif.		
Du	Devonian Undif.		
Cu	Cambrian Undif.		



FARLIN CREEK
MT-076-034

Paved Road

WSA Boundary

MINING CLAIMS AND MINERAL LEASES

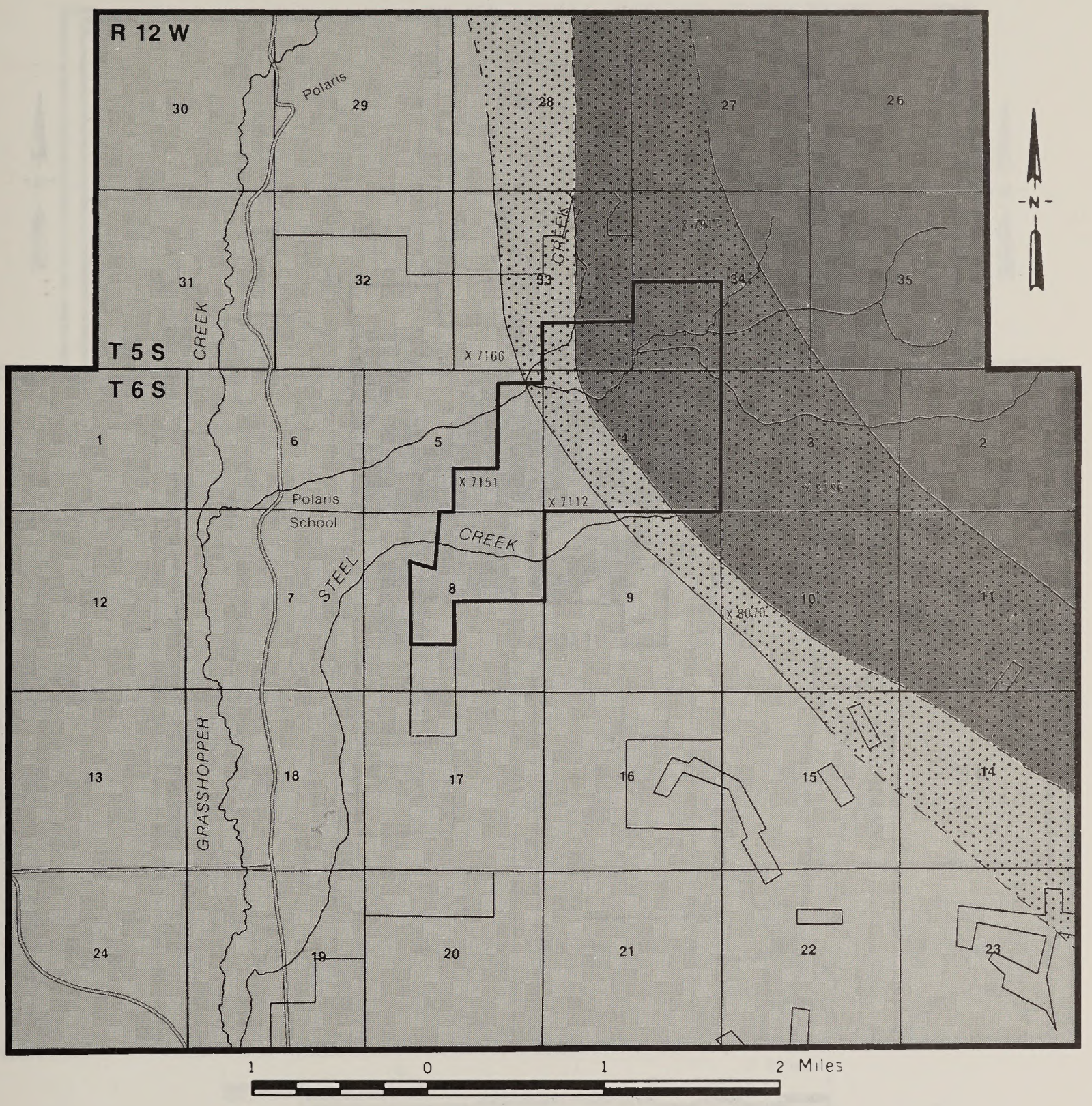
Oil and Gas Leases

Post FLPMA Leases*

(NONE) Pre FLPMA Leases

Mining Claims

*Includes lease applications and leases in simultaneous lottery



FARLIN CREEK
MT-076-034

MINERAL POTENTIAL

Paved Road

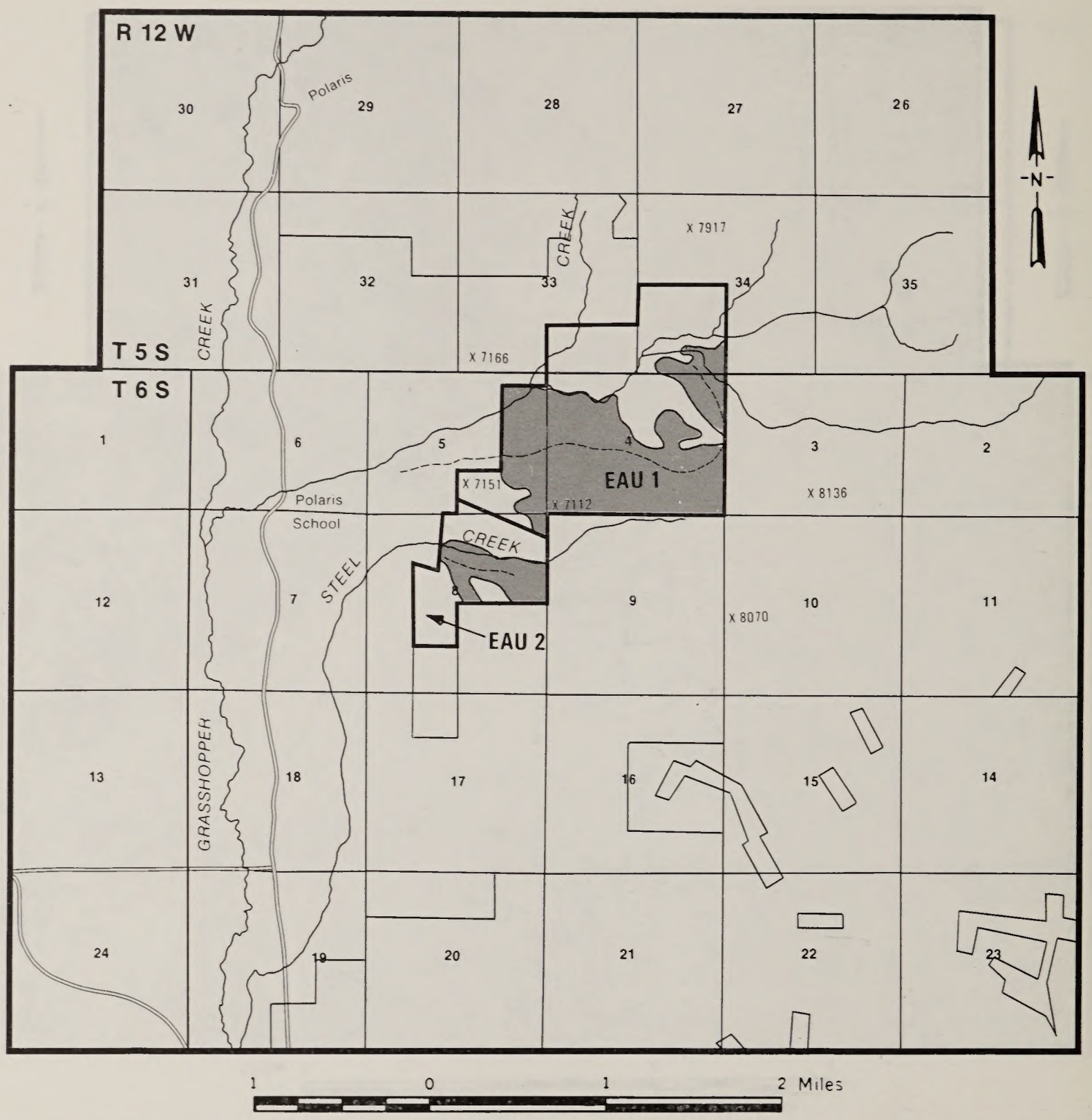
WSA Boundary

Geology

Paleozoic Sediments

Intrusive

High Potential Au, Ag, and W



FARLIN CREEK
MT-076-034

TIMBER MANAGEMENT

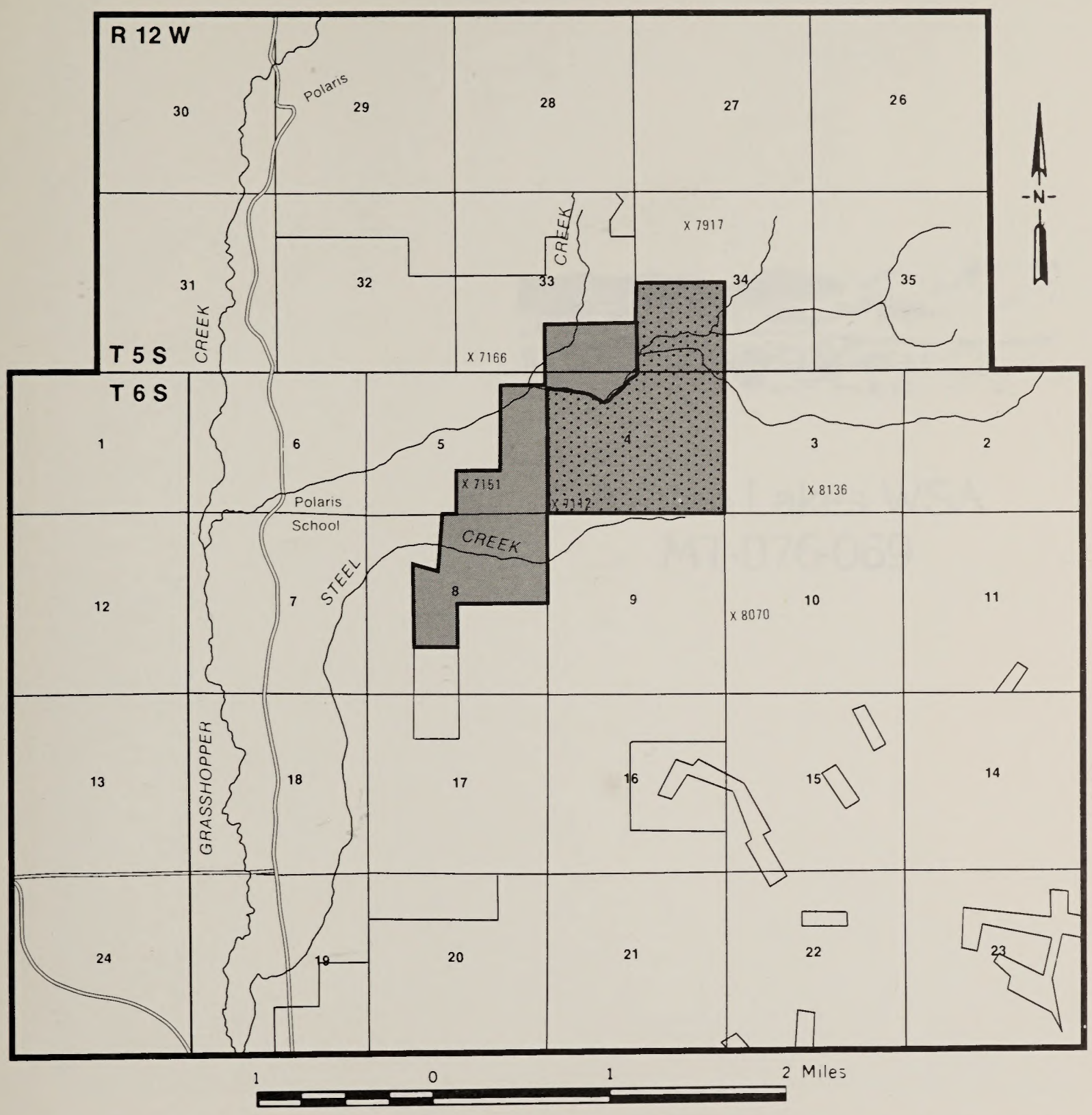
EAU Economic Analysis Unit

Commercial Timber

Proposed Road

Paved Road

WSA Boundary



FARLIN CREEK
MT-076-034

Paved Road

WSA Boundary

ALTERNATIVES

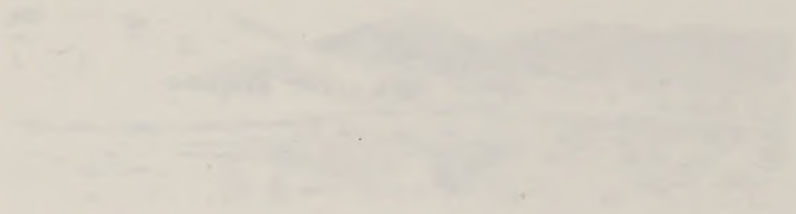
Alternative Boundary

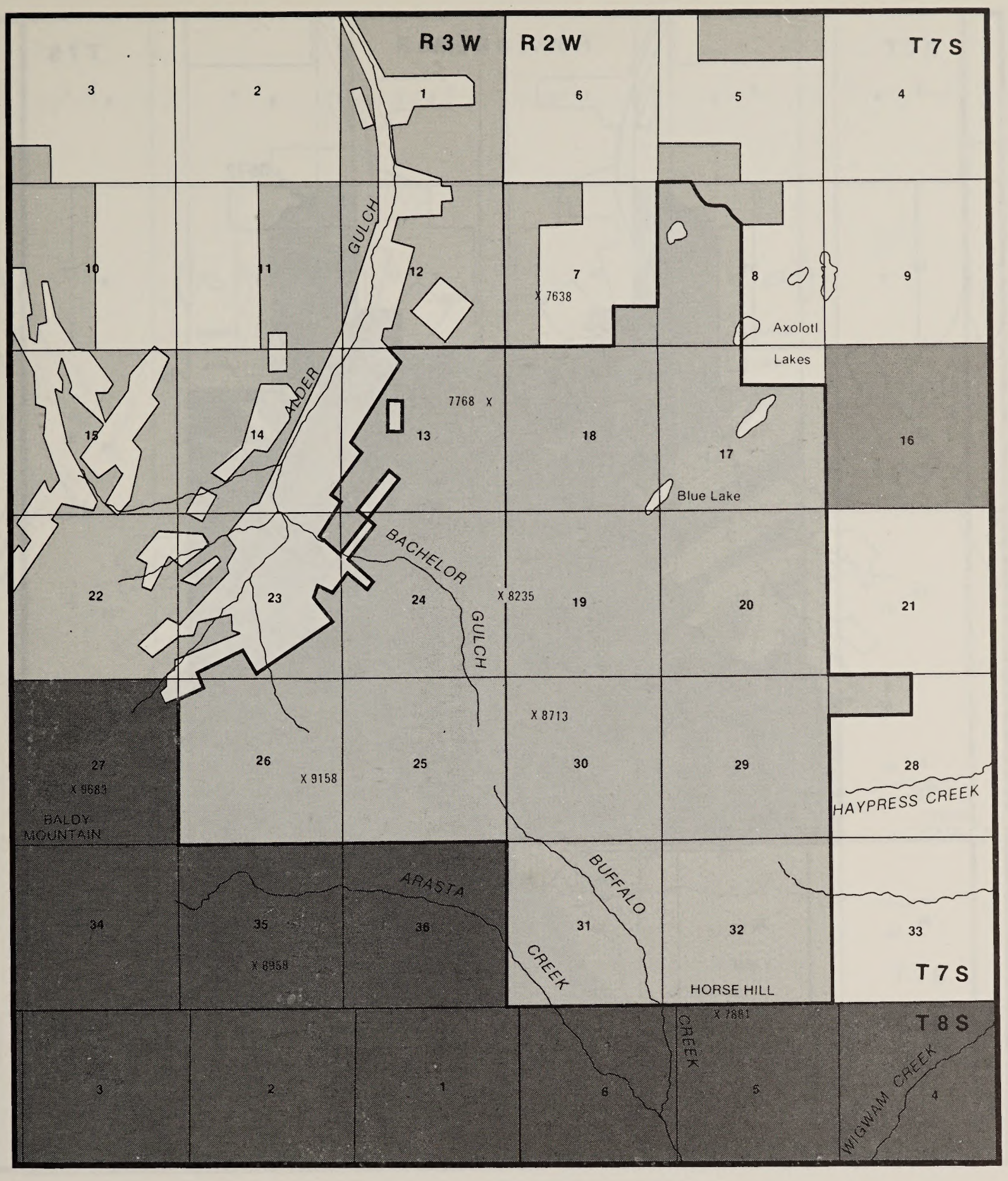
F-1 All Wilderness

F-2 No Wilderness (no portion designated as wilderness)

F-3 Partial Wilderness

Axolotl Lakes WSA
MT-076-069





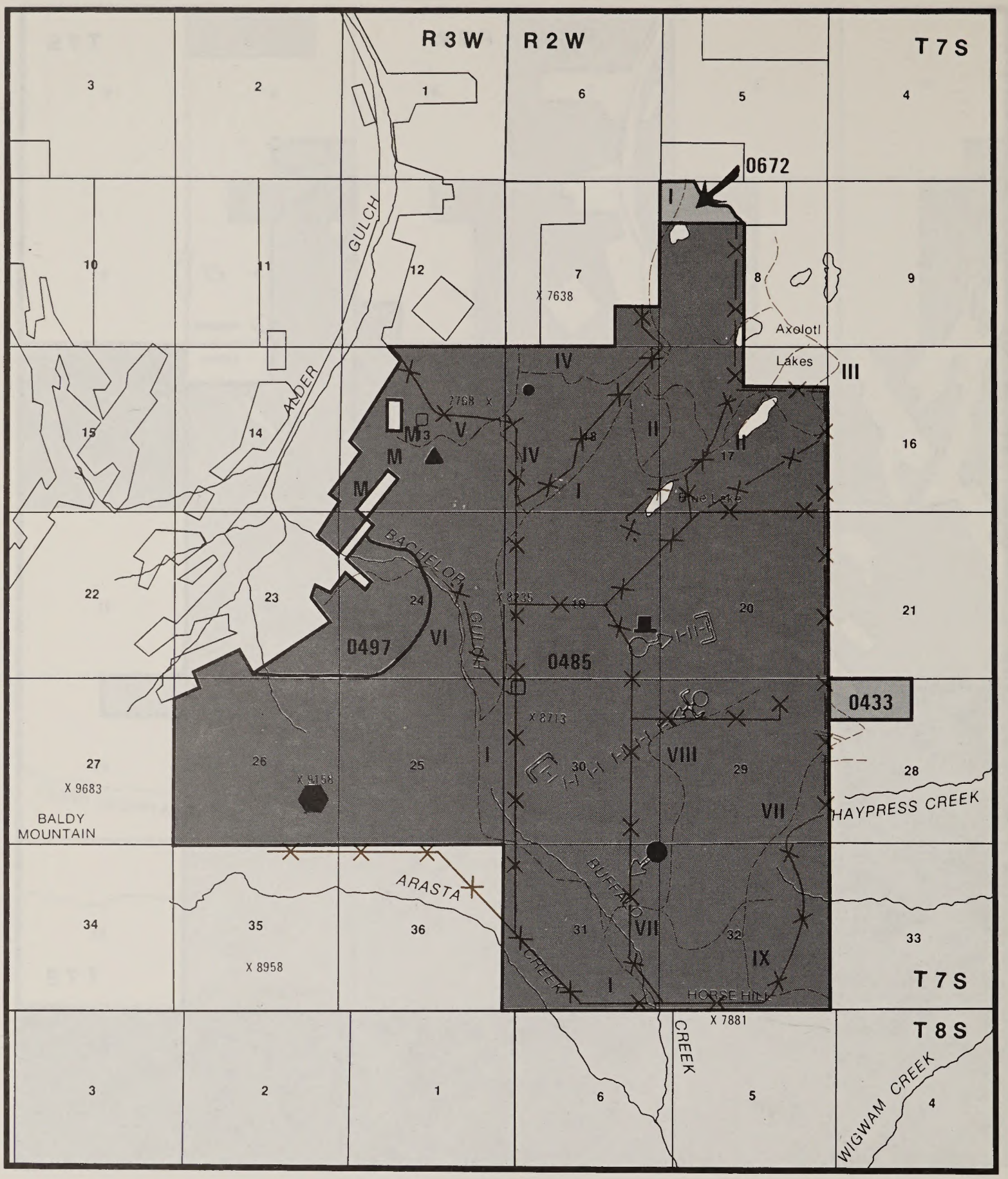
AXOLOTL LAKES
MT-076-069

LAND STATUS

- WSA Boundary
- Forest Service
- State
- BLM
- Private

N

1 0 1 2 Miles



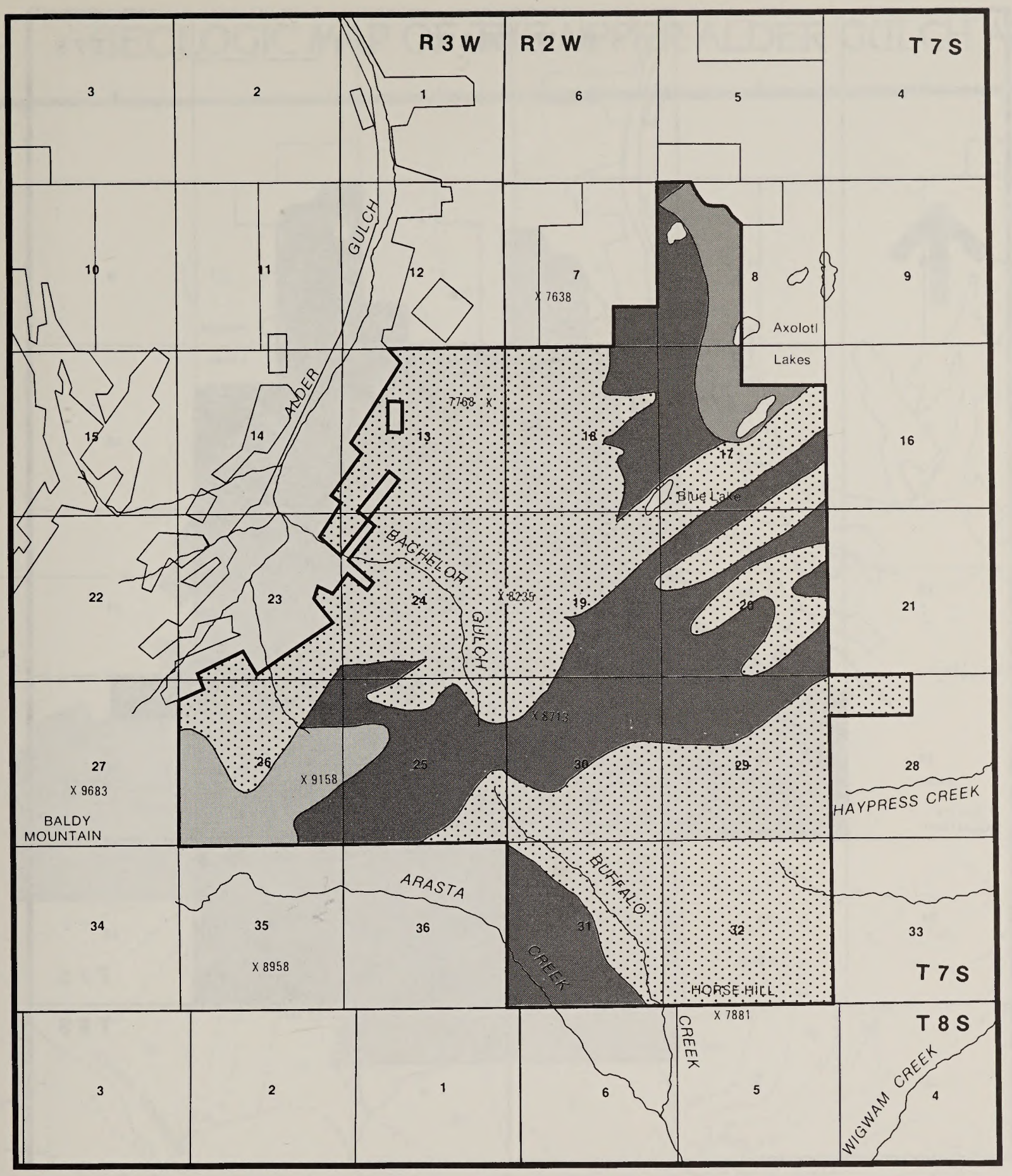
AXOLOTL LAKES
MT-076-069

DEVELOPMENT AND ALLOTMENTS

- Proposed Allotment Management Plan
- Custodial
- WSA Boundary
- Fenceline
- Proposed Fenceline
- Vehicle Way
- M Mineral Site
- Dammed Pond
- Proposed Artificial Watershed
- Proposed Pipeline
- Proposed Spring Development
- Spring Development
- Timber Cutting
- Building
- Cairns
- Repeater Station

N

1 0 1 Mile



AXOLOTL LAKES
MT-076-069

ECOTYPES
(Bailey—Kuchler System)

N

WSA Boundary

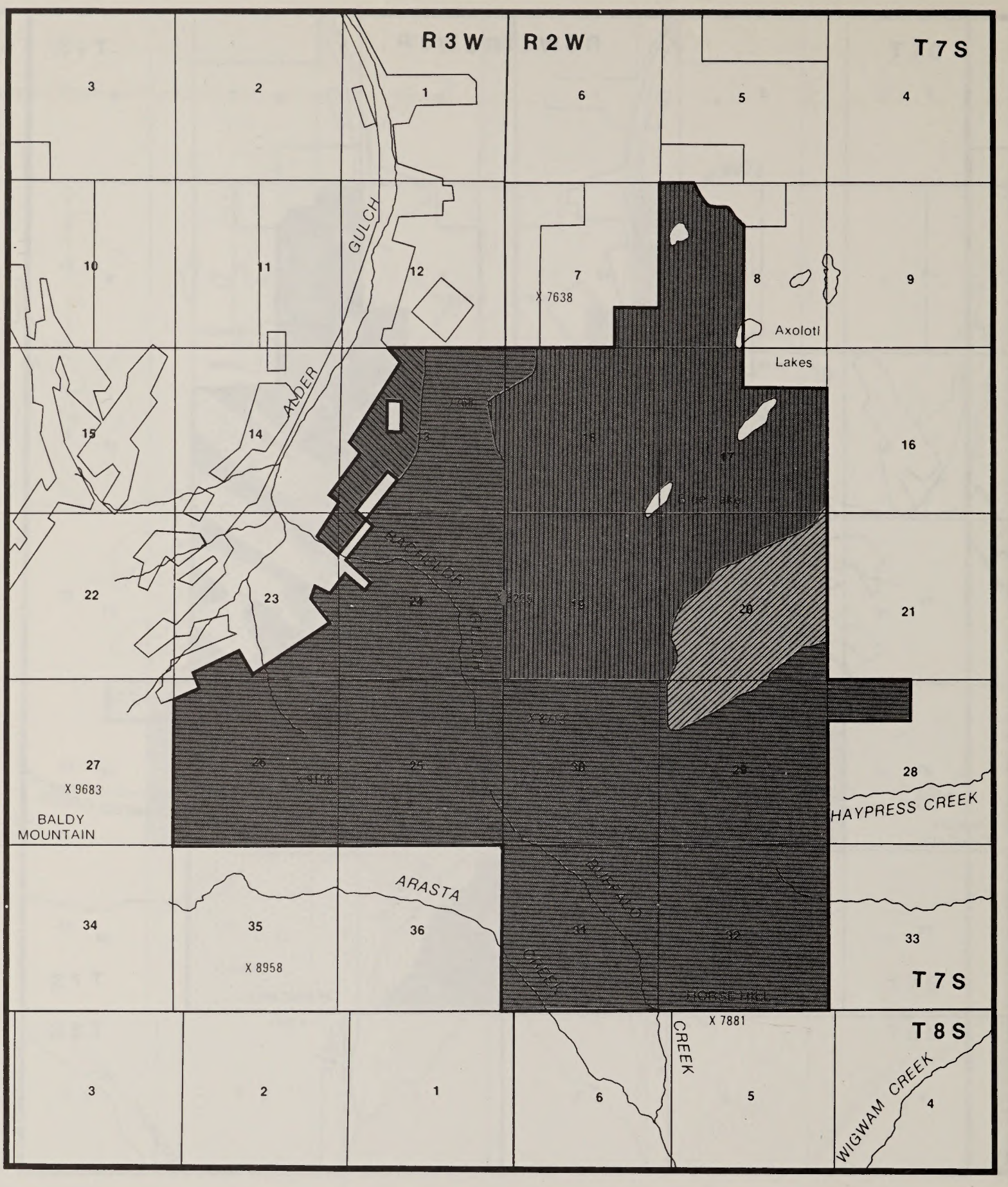
11 Douglas Fir Forest

45 Alpine Meadows and Barren

49 Sagebrush Steppe

56 Foothills, Prairie

1 0 1 2 Miles



AXOLOTL LAKES
MT-076-069

—— WSA Boundary

Scenic Quality Classes

Class A — Outstanding Scenic Values

Class C — Average Scenic Values

1 0 1 Mile

VISUAL RESOURCES

Visual Resource Management Classes

Class II--Retention of Landscape Characteristics
(no evident changes allowed)

Class III--Partial Retention of Landscape Characteristics
(no dominant changes allowed)

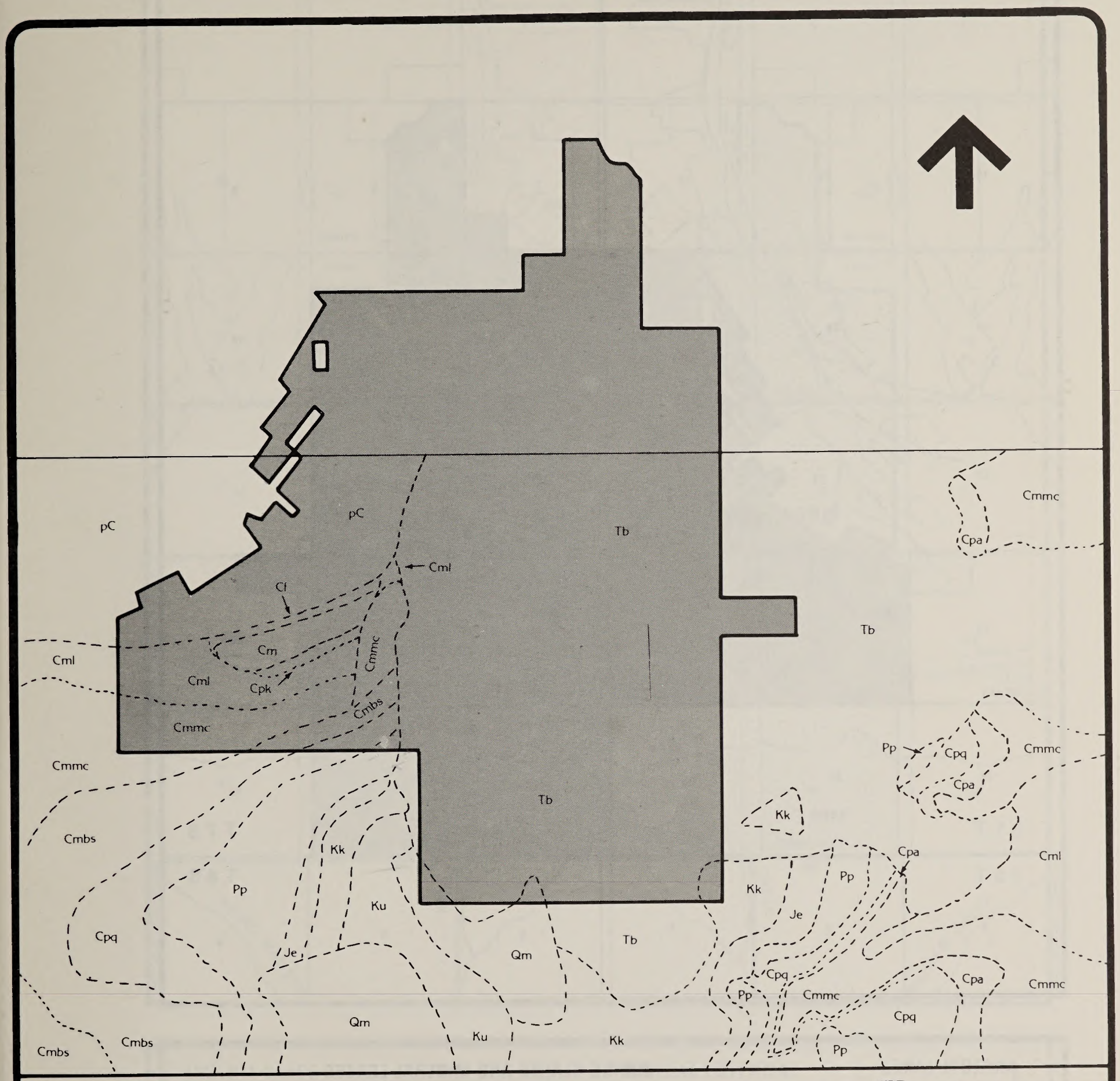
Class IV-- Modification of Landscape Characteristics
(dominant changes allowed)

Class V--Rehabilitation of Landscape Characteristics
(changes to improve needed)

-N-

AXOLOTL LAKES WSA

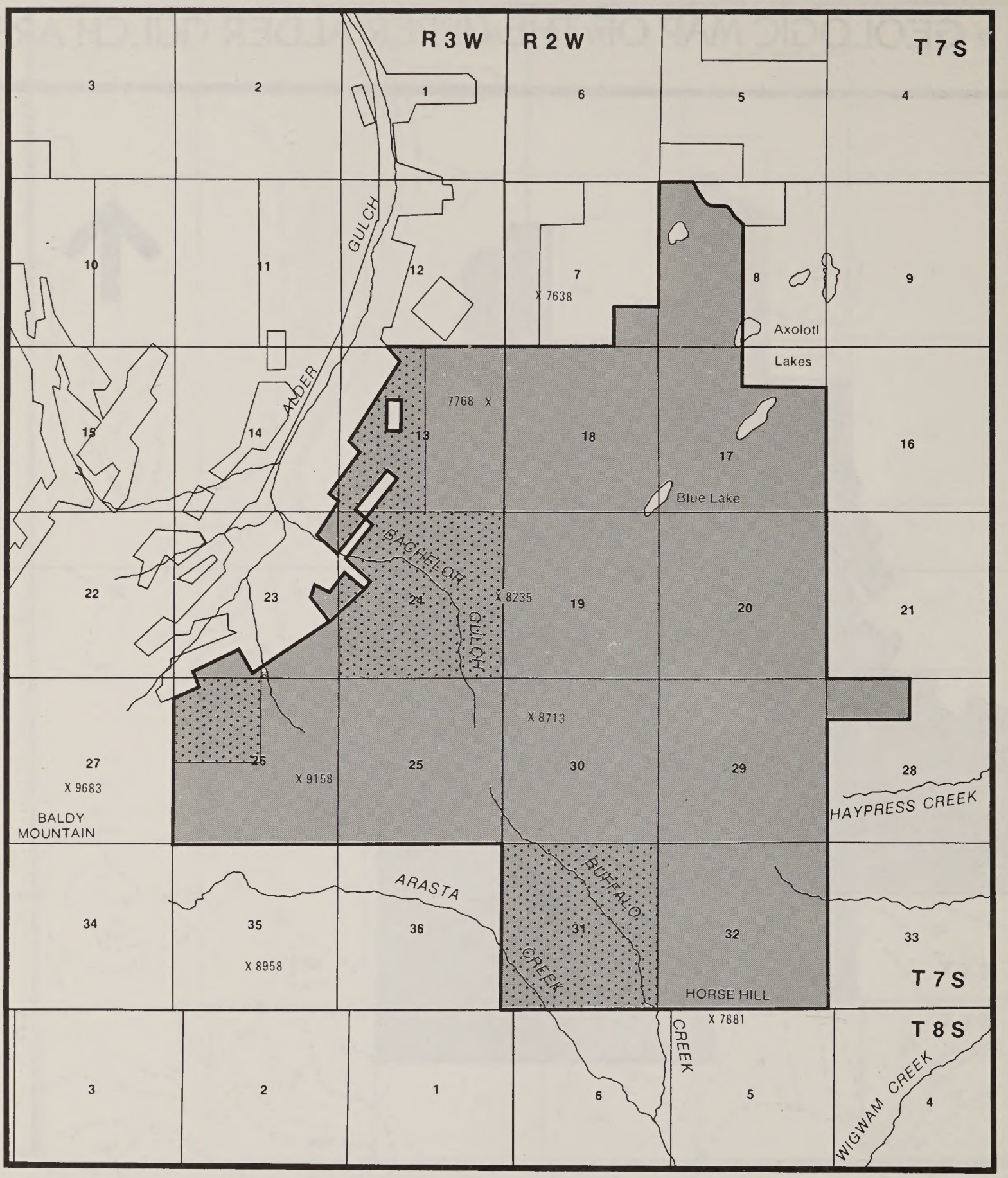
GEOLOGIC MAP OF THE UPPER ALDER GULCH AREA



pC	Precambrian	Cml	Lodgepole Limestone	Je	Ellis Group
Cf	Flathead Sandstone	Cmmc	Mission Canyon Limestone	Kk	Kootenai Formation
Cw	Wolsey Shale	Cmbs	Big Snowy Group	Ku	Cretaceous-undifferentiated
Cm	Meagher Limestone	Cpa	Amsden Formation	Tb	Basalt
Cpk	Park Formation	Cpq	Quadrant Formation	Qm	Glacial Moraine
Eu	Cambrian undifferentiated	Pp	Phosphoric Formation		

Wilderness Study Area

1:63360



AXOLOTL LAKES
MT-076-069

MINING CLAIMS AND MINERAL LEASES

WSA Boundary

Oil and Gas Leases

Post FLPMA Leases*

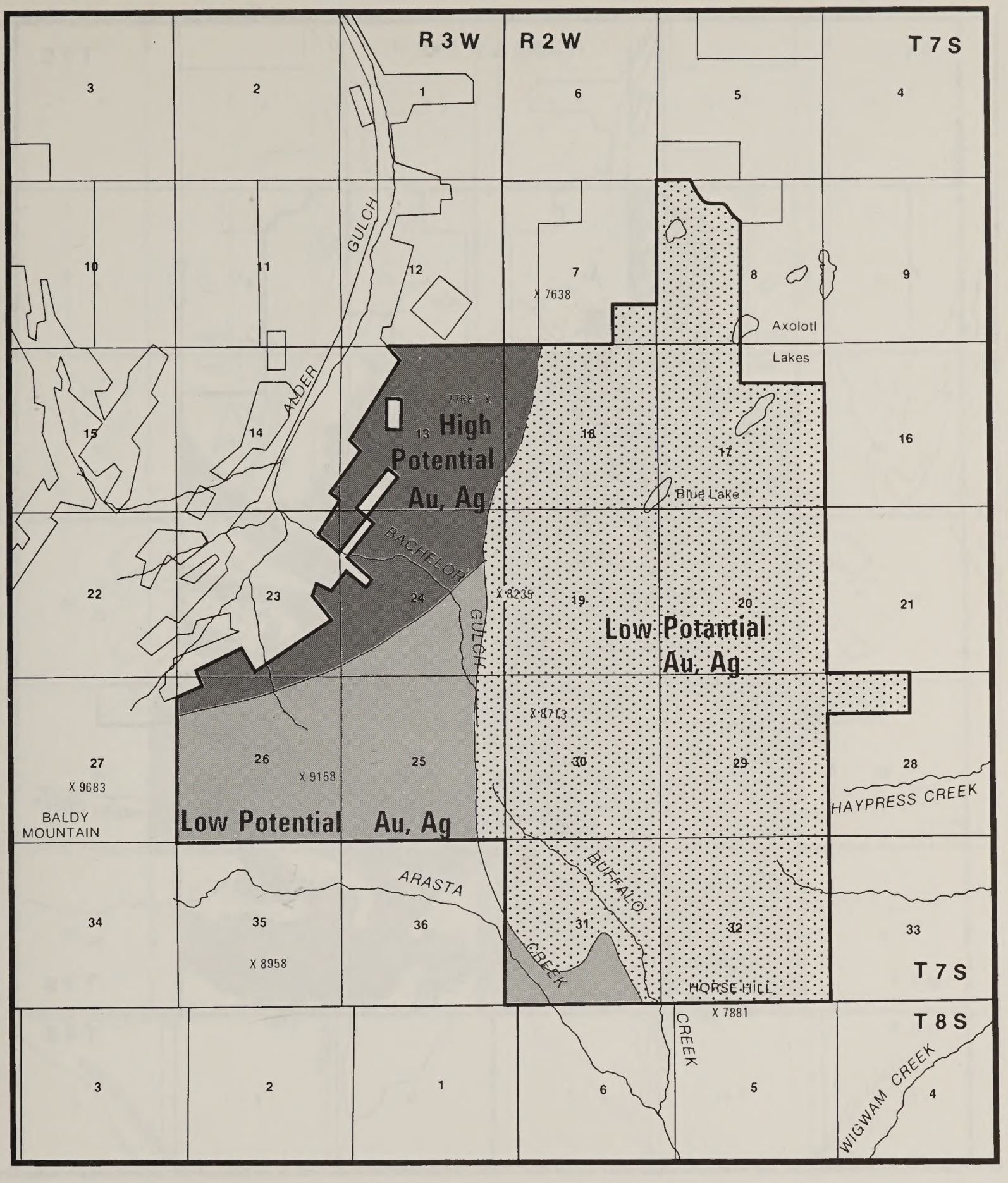
(NONE) Pre FLPMA Leases

Mining Claims

*Includes lease applications and leases in simultaneous lottery

1 0 1 2 Miles

N



AXOLOTL LAKES
MT-076-069

MINERAL POTENTIAL

WSA Boundary

Geology

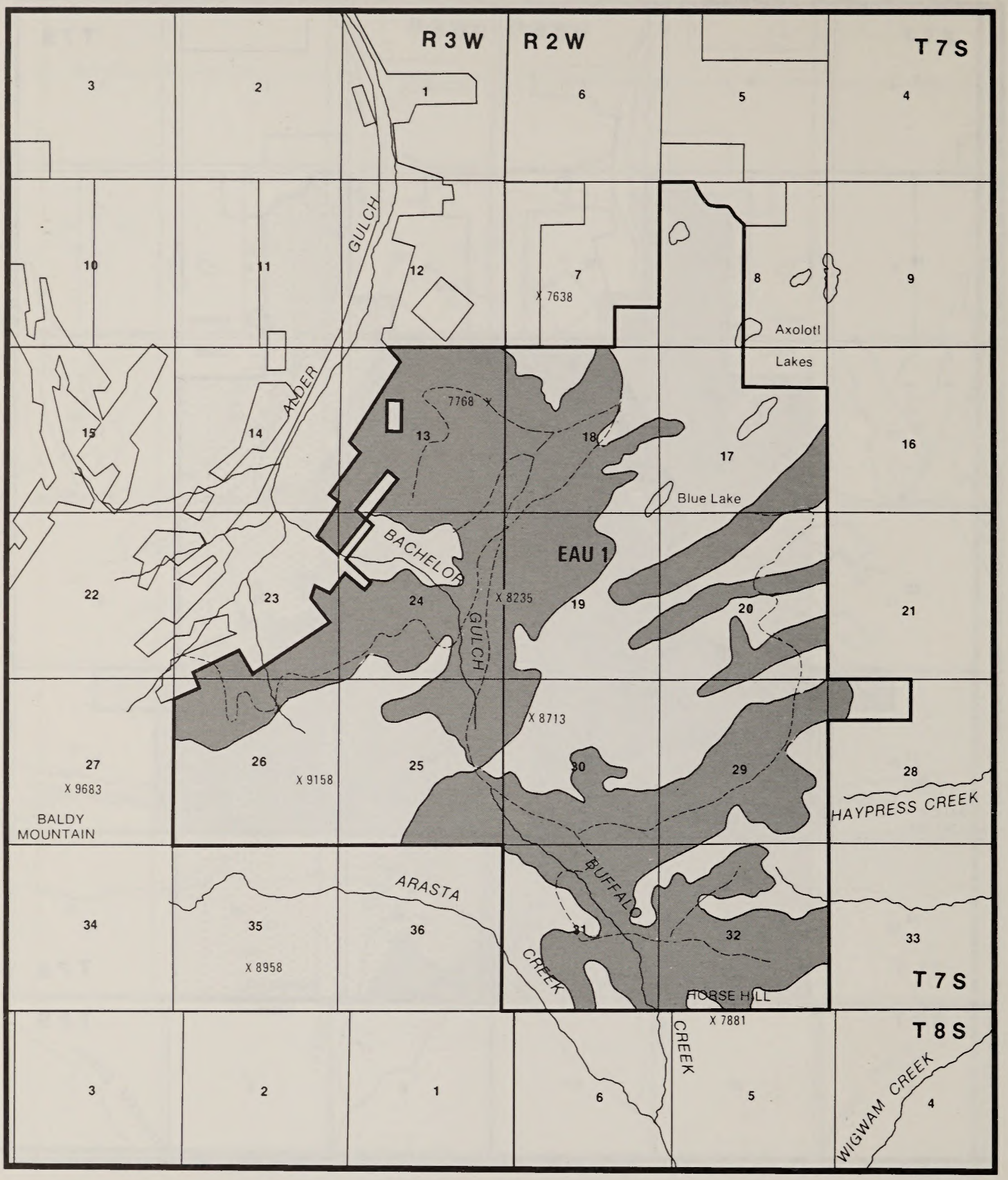
pC Pre-Cambrian Schist and Gneiss

Ps Paleozoic Sediments

Tb Tertiary Bosalt

-N-

1 0 1 2 Miles



AXOLOTL LAKES
MT-076-069

TIMBER

N

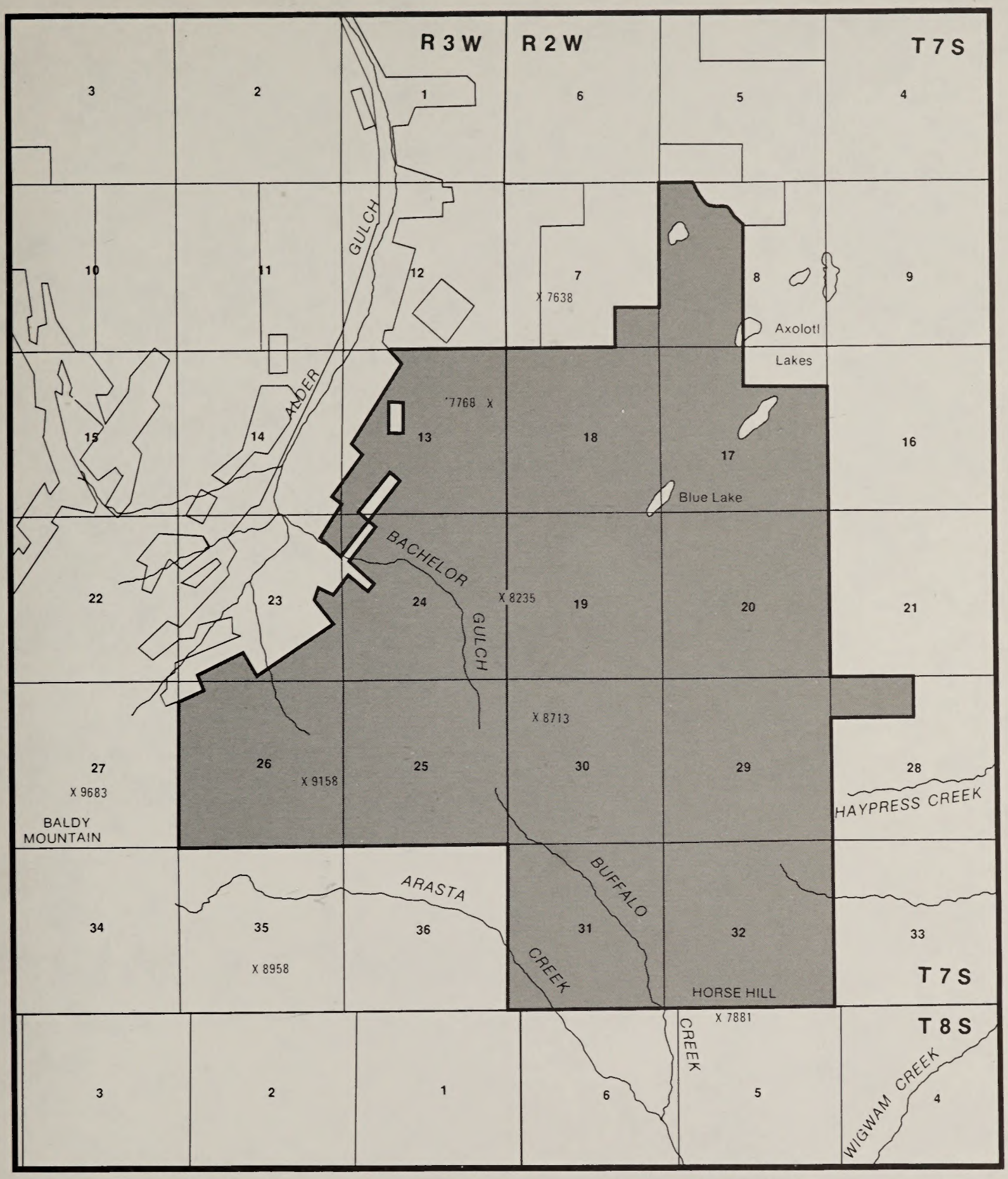
WSA Boundary

EAU Economic Analysis Unit

Proposed Roads

Commercial Timber

1 0 1 2 Miles



AXOLOTL LAKES
MT-076-069

ALTERNATIVES

-N-

WSA Boundary

AX-1 All Wilderness

AX-2 No Wilderness (no portion designated as wilderness)

1 0 1 2 3 Miles

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